

A detailed microscopic image of a biological surface, possibly a leaf or stem, showing a repeating pattern of blue, porous, circular structures interspersed with larger, smooth, yellowish, rounded protrusions. The lighting creates a sense of depth and texture.

# Fisher Science Education 2019

 **fisher science  
education**  
part of Thermo Fisher Scientific



Preparing today's students to be the innovators of tomorrow isn't always easy, but finding the right teaching tools can be. From basic lab supplies to state-of-the-art classroom technology, the Fisher Science Education team can offer everything you need to create a 21st century STEM learning environment. Visit [fisheredu.com](http://fisheredu.com) to get started.

### Looking for more STEM support?

Find what you need in our STEM and Career Education section starting on **page 3** or visit [fisheredu.com/STEM](http://fisheredu.com/STEM) for additional resources.

### Need help managing your chemicals in the classroom?

Search for chemicals, find classroom and laboratory resources, and try the free ChemAssist app for cloud-based inventory management. See 212 or visit [fisheredu.com/chemicals](http://fisheredu.com/chemicals) to learn more.

### Have a career training program?

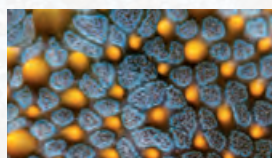
Browse the STEM and Career Education section on **page 3** or visit [fisheredu.com/nursingcte](http://fisheredu.com/nursingcte) to find human and biological models, simulation supplies, forensic experiments, and many more items to train tomorrow's professionals.

### Want to customize aspects of your curriculum?

Explore custom kits to meet the unique demands of your classroom. Visit [fisheredu.com/repfinder](http://fisheredu.com/repfinder) to find and contact your Fisher Science Education sales representative.

### Concerned about shipping and handling fees?

We offer \$12 flat-rate shipping on most orders and our hazardous material fee is just \$15 — the lowest in the country.



#### On the cover: Starfish

Also called sea stars, these creatures are known for their unique ability to regenerate arms and other body parts.

Connect with us on social media to catch up on the latest science news and interact with educators across the country.



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We are committed to offering quality products and exceptional value. Many of the most prestigious, well-known, and respected suppliers in the market have partnered with us to bring you the best in science education resources. Visit [fisheredu.com/featuredsuppliers](http://fisheredu.com/featuredsuppliers) to learn more about the following suppliers and their products.





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We've updated our categories! Use the table of contents below to find what you need.

Visit [fisheredu.com](http://fisheredu.com) to shop 27,000 products in the full Fisher Science Education catalog.

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## Look for These Icons to Help Guide Your Buying Decisions



Denotes the new products we've added to the catalog.



Denotes items that must be shipped by truck for regulatory reasons — no air delivery.



Highlights furniture that meets the Americans with Disabilities Act.



Indicates goggles that protect against accidental splashes of hazardous chemicals or potentially infectious materials.

## Guarantee

The Fisher Science Education team is committed to providing the highest quality products and services. If you're not 100% satisfied with your purchase, contact our customer service team within 30 days of your invoice date and we'll either exchange, repair, or replace the product, or give you a credit for the full purchase price. Call us toll-free for a return authorization number.

*Special order items, furniture, and closeouts cannot be exchanged or credited.*

## Your Satisfaction Is Our Goal

The Fisher Science Education team is full of helpful, knowledgeable people dedicated to serving you.

**Phone:** 1-800-955-1177 • 7 a.m. to 5:30 p.m.  
Central Time, Monday through Friday

**Fax:** 1-800-955-0740 • 24 hours a day, 7 days a week

**Email:** [fse.custserv@thermofisher.com](mailto:fse.custserv@thermofisher.com)

**Website:** [fisheredu.com](http://fisheredu.com)

**Address:** Fisher Science Education  
4500 Turnberry Drive  
Hanover Park, IL 60133

For international orders, see page 480. All prices are subject to change.





Trust | Deliver | Learn

Your source for reliable and innovative science education products.

[fisheredu.com/eisco](http://fisheredu.com/eisco)



## Launch Your School's Biotech Program

Find the curriculum, products, and support you need for every step of your journey.

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# STEM & CAREER EDUCATION

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**STEM** (Science, Technology, Engineering, and Math) is an interdisciplinary approach to teaching that encourages problem-solving skills and emphasizes the application of knowledge to real-world situations. This initiative aims to make the U.S. globally competitive by increasing the number of students who enter and succeed in STEM-related fields.

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## 3B SCIENTIFIC

# Realistic, High-Quality Simulators and Models

Advance health care education with 3B Scientific™ medical simulators for scenario-based training and anatomical models cast from actual specimens.

**S96636** \$674.00/Ea

[fisheredu.com/3B](http://fisheredu.com/3B)





## STEM Lab/Makerspace

## Robotics and Engineering

## fischertechnik™ Education Robotics Mini Bots Set

Make it easy for kids to discover the evolving world of robotic technology. fischertechnik™ Education Robotics: Mini Bots Set makes STEM concepts accessible to students.

- Ideal introduction to mobile robotics
- Comes with pre-programmed module — no coding required
- Build a line follower, an obstacle detector, and more!

**WARRANTY:**

2 years from date of purchase

Cat. No.	Description	Price
S35687	Robotics Mini Bots Set	144.00/Ea

## Eisco Basic Circuits Kit

An inventive way to teach series-parallel circuits.

- Contains everything required to study series-parallel circuits and batteries
- Battery holders, knife switches and lamp holders feature clip or screw contacts for easy assembly and disassembly

**INCLUDES:**

Single-pole, single-throw switch; five miniature lamps; two lamp sockets; two D batteries and battery holders; 10 ft. (3m) of wire; with instructions

Cat. No.	Description	Price
S63323A	Basic Circuits Kit	26.00/Ea

## IQ KEY Perfect 600 Robotic STEM Kit

For students to learn about engineering and its applications.

Stimulates right brain creativity by encouraging students to design and build machines of their own.



- With plans to build twenty different machines
- Identify different simple machines working together to transfer and transform energy
- Used to teach with Common Core, National Next Generation Science Standards, also encourages STEM education
- Requires 2 x AA batteries, not included
- Includes teacher's guide

**CERTIFICATIONS:**

CE

Cat. No.	Description	Price
S13168	IQ KEY Perfect 600 Robotic Stem Kit	81.25/Ea

## Snap Circuits™ Sets

Create exciting experiments.



Enjoy hours of educational fun while building projects such as AM radios, burglar alarms, flashlights, doorbells and electronic games. Project components feature easy-snap assembly with no tools required.

- Snap Circuits offers more than 300 project options; requires four AA batteries (not included)
- Snap Circuits Jr. offers over 100 project options; requires two AA batteries (not included)
- Weight 3.1 lb. (1.4kg)

**INCLUDES:** Instruction manuals

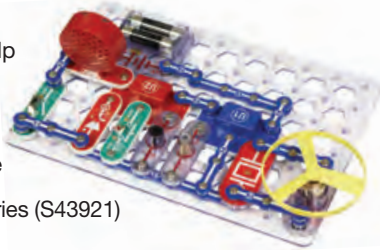
Cat. No.	Description	Price
S66934	Snap Circuits 300 Experiment	86.15/Ea



## Elementary Snap Circuits™ Kit

Great introduction to the world of electricity and electronics.

- More than 30 parts easily snap together
- Build over 100 experiments without any additional tools
- Full-color manual includes information about resistors, capacitors, transistors, motors, batteries, series/parallel circuits and more
- Student and teaching (S68213TG) guides help integrate more advanced topics in electronics



**INCLUDES:** Storage case

**REQUIRES:** Two AA batteries (S43921)

Cat. No.	Description	Price
S68214	Snap Circuits Elementary Education Kit	64.60/Ea

## Intermediate Snap Circuits™ Kit

Puts the excitement into electricity and electronics.

More than 60 modular parts to build over 300 experiments.

- Full-color manual relates information about resistors, capacitors, transistors, motors, various types of circuits and more
- Parts are stored in a lightweight, durable case with custom foam inserts



### ORDERING INFORMATION:

Student and teaching guides (S68213TG and S68213SG) help integrate more advanced topics in electronics. Optional computer interface takes learning to the next level with an additional 73 experiments.

### REQUIRES:

Four AA batteries (S43921)

Cat. No.	Description	Price
S68213	Snap Circuits Educational Series 300	133.45/Ea

## United Scientific™ Create-a-Circuit

Handy kit makes it easy to create a circuit.

### ORDERING INFORMATION:

Dimensions: 7 x 4 x 2 in. (17.8 x 10.2 x 5.1cm); shipping weight: 4.6 oz. (130.4g). D-cell battery not included.

### INCLUDES:

One D-cell battery holder, one knife switch, two miniature light bulbs, two lamp holders, four connector cords, instructions

Cat. No.	Description	Price
S05820	Circuit Kit	21.00/Ea

## Eisco Build A DC Motor Kit

Classic activity used to teach crucial scientific and physics concepts.

This kit contains everything needed to build a working DC motor and learn its parts from the inside out. Classic activity used for many years to teach crucial scientific and physics concepts. Wind your own armature and field coil; build the commutator with two snap together pieces.



### Kit includes:

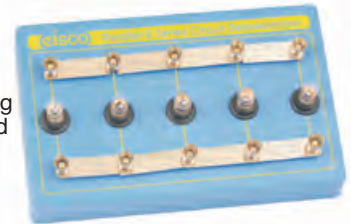
- Copper wire coils (2)
- Plastic base
- Field poles
- Armature core
- Brushes and fasteners

Cat. No.	Description	Price
S13013	Build a DC Motor Kit	9.55/Ea

## Eisco Series and Parallel Circuit Demonstration Board

Helps students to distinguish between series and parallel circuits.

- Helps students develop conceptual and mathematical understanding of how voltage, current, and resistance behave in series or parallel circuit
- Depending on the configuration, luminosity of light bulbs varies to show how parallel and series circuits differ
- Connects to power source (such as battery) using spade terminal connections (battery and connectors not included)



### INCLUDES:

Sturdy base, (5) 1.5V lightbulbs, 8 detachable metal bars, 10 thumb screws, Instructions

Cat. No.	Description	Price
S13003	Series and Parallel Circuit Demonstration Board	61.50/Ea





## K'NEX Education™ Introduction to Simple Machines Building Sets

Bring STEM concepts to life as your students build fully functioning replicas of real-world machines, one at a time.

- Each set includes instructions to build seven or more replicas of real-world machines, one model at a time
- Sets include K'NEX™ parts, building instructions, key facts and photos of actual machines
- Packs of four
- Grades 3 to 5

### Key Concepts Include:

- Making Work Easier
- $W=Fd$  (Work equals force times distance)
- Changing the Direction of Force
- Ideal Mechanical Advantage
- Actual Mechanical Advantage
- Wedge Screw
- Gear Ratios
- Mechanical Systems
- Gear Types
- Lever Classes
- Pulley Systems

### Gears Set Includes:

- 198 K'NEX pieces per set
- Building instructions for seven replicas of real-world machines
- Demonstrates gear configurations, including spur and crown gears, mechanical advantage, gear ratios, how gears are used to change the amount of applied force to an object and more

### Levers and Pulleys Set Includes:

- 178 K'NEX pieces per set
- Building instructions for eight replicas of real-world machines
- Demonstrates lever classes and pulley systems, showing how and why simple machines make work easier



### Wheels/Axles and Inclined Planes Set Includes:

- 221 K'NEX pieces per set
- Building instructions for seven replicas of real-world machines
- Explore examples of wheels and axles and identify the differences between an inclined plane, wedge and screw

Cat. No.	Description	Price
S67347	Gears 7-Model Set	43.25/Ea
S67348	Levers and Pulleys 8-Model Set	43.25/Ea
S67349	Wheel and Axle 7 Model Set	43.25/Ea

## Bridge Building Class Pack

Challenge students' mathematical skills with this analytical exercise in creativity.

- Supports a wide variety of curricula including geometry, physics, technology, mathematics and general science
- Build the strongest bridge with the smallest amount of materials
- Bridge efficiency is judged as the ratio of the weight held by the bridge to the weight of the bridge
- Grades 6–12

### ORDERING INFORMATION:

- Select 360 pieces of either 0.13 × 0.13 × 24 in. (0.31 × 0.31 × 60cm) balsa wood or 0.14 × 0.14 × 24 in. (0.34 × 0.34 × 60cm) basswood
- Class size: 24 students

### INCLUDES:

All materials required:

- Wood
- Adhesive
- Competition design parameters
- Booklet: "Teaching with Model Bridge Building Programs"



Cat. No.	Description	Price
S41893B*	Balsa Bridge Building Kit	120.95/Ea



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 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## fischertechnik™ Education Introduction to STEM I Kit

Provides an ideal pathway for introducing students to everyday technology and to enable them to understand how the things around them actually work. fischertechnik™ Education Introduction to STEM I Kit helps students to construct 12 easy-to-understand models such as hand dryer, windshield wipers, lighthouse with blinking light, merry-go-round, or an automatic sliding door.

- Hands-on, standards focused STEM solution for grades 2,3, and 4
- Introduce students to world of STEM with examples from everyday technology
- Complete with downloadable curriculum, including worksheets, teachers answer sheets, rubrics, and more

Constructing explanations,  
Designing solutions

**WARRANTY:**  
2 years from date  
of purchase



### Explore essential STEM concepts, including:

Simple machines, Electrical fundamentals, Introduction to Ohms Law, Motor fundamentals, Introduction to coding (programming), Matter and weight, Cause and effect, Systems and system models, Developing and using models, Structure and function, Stability and change, Energy and motion, How is energy transferred? Analyzing and interpreting data,

Cat. No.	Description	Price
S35676	Introduction to STEM I Kit	100.00/Ea

## fischertechnik™ Education Physics I Model Set

To learn about physical phenomena such as acceleration, inertia of mass, laws of mass, and more. fischertechnik™ Education Physics I Set includes track based, coaster style models to make physics engaging and easy to understand.

- 690 parts for building 7 different models

**WARRANTY:**  
2 years from date of purchase



Cat. No.	Description	Price
S35684	Physics I Model	145.00/Ea

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## Furniture

## Diversified Woodcrafts™ Drawing Tables

Constructed of solid maple and the unit is coated with chemical resistant, earth-friendly UV finish.

- Solid 2.25 in. maple legs and aprons
- Fully adjustable 0.75 in. almond colored plastic laminate top with the soft-close feature
- Top adjusts from 0 to 30 degree
- Choose from one and two-piece tops, plain apron, two sizes of drawers and two heights
- Two-piece top has a 24D x 24 in.W adjustable and 24D x 12 in.W fixed, flat side
- DT-9 model features plain apron
- All models are available in either 30 or 36 in.H



**WARRANTY:** Limited Lifetime

**CERTIFICATIONS:**  
MAS Certified Green

**COMPLIANCE:** SEFA

Cat. No.	Model	Top Style	Height (Metric)	Price
S42657	Apron with Large Drawer	2-piece	76.2cm	1438.00/Ea

## Diversified Woodcrafts™ Drawer Base Drawing Table

Constructed of solid maple and maple veneers and coated with a chemical resistant, earth-friendly UV finish.

- Plywood cabinet and solid maple apron and legs
- Includes separately master-keyed six locking drawers (19.75D x 10.5W x 3.25 in.H)
- Drawers (6) are completely finished and dovetailed on all four sides
- Top is 0.75 in. almond colored plastic laminate
- One-piece fully adjustable top
- Features pencil stop and include soft-close feature
- Top adjusts from 0 to 30 degrees
- Dimensions: 24D x 36W x 30 in. H



**WARRANTY:**

Limited Lifetime

**COMPLIANCE:**

SEFA

**CERTIFICATIONS:**

MAS Certified Green

Cat. No.	Description	Price
S42658	One-Piece Fully Adjustable	2373.00/Ea

## Diversified Woodcrafts™ Art Bench



Sturdy bench used in art rooms, libraries, solid place for people to sit.

- Made of 0.75 in. solid maple
- Built-in shelf provides a place to store books and papers
- Finished with an earth-friendly UV finish
- Dimensions: 12D x 17W x 17 in. H



Cat. No.	Description	Price
S01705MF	Art Bench	330.00/Ea

## Diversified Woodcrafts™ Art/Planning Table



Designed to be used in most any environment from art and general planning to sewing and model construction. The base is constructed of two tapered solid maple pedestal style panel legs and two solid maple truss bars. The unique way the top is attached prevents the table from racking or rocking.

- 60W x 42D, with 26 and 30 in. height options
- Constructed of solid maple with plastic laminate or maple top
- SEFA compliant and MAS Certified Green
- Finished with a durable earth-friendly UV finish
- Limited Lifetime Warranty
- Made in the USA
- Minimal assembly required
- Weight: 135 lb. (72.6kg)



Cat. No.	Description	Price
S01718MF	Art/Planning Table	1500.00/Ea

## Diversified Woodcrafts™ Art Horse

Designed for student comfort.

- Grooved seat
- Accommodate up to 24 x 30 in. drawing boards
- Constructed of solid maple
- Finished with earth-friendly UV finish
- Dimensions: 29D x 12W (seat) x 33 in. H



Cat. No.	Description	Price
S01706MF	Art Horse	373.00/Ea

## Diversified Woodcrafts™ Open Style Auxillary Workbench

Provides durability of hard maple tops with functionality of open shelves

- Designed for use against wall
- Solid maple and maple veneers construction
- Includes angle iron-front edge and 4 in. rear maple curb
- Chemical resistant, earth-friendly UV finish
- Shelf Material: Plywood
- Dimensions: 24D x 72W x 32 in. H
- Top Style: 2.25 in. thick maple



Cat. No.	Description	Price
S38046	Open Auxillary Workbench	3175.00/Ea

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# Products to Complete Your Makerspace

Stock up on the products you need to continue making, learning, and exploring in your classroom.



Description	Cat. No.	Quantity	Price
<b>Cups</b>			
Clear Plastic Cups, 2.5 oz.	S04589	45/Pack	\$5.35
Clear Plastic Cups, 7 oz.	S04202	100/Pack	\$29.50
Clear Plastic Cups, 9 oz.	S04201	100/Pack	\$28.25
Clear Plastic Cups, 16 oz.	S04170	50/Pack	\$14.25
Foam Cups, 6 oz.	S04195	1000/Pack	\$62.75
Foam Cups, 8 oz.	S04196	1000/Pack	\$71.50
Paper Cups, 4 oz.	S04199	100/Pack	\$6.17
Paper Cups, 4 oz.	S04198	500/Pack	\$65.75
Paper Cups, 8 oz.	S04200	100/Pack	\$15.25
Translucent Cups, 7 oz.	S04575	100/Pack	\$13.25
<b>Pans</b>			
Aluminum Pie Pans, Dia.: 9 in.	S04171	Each	\$8.05
Foil Pans, L x W: 8 x 8 in.	S04203	6/Pack	\$6.70
Foil Pan, Dia.: 4.9 in.	S04204	Each	\$4.80
<b>Pencils</b>			
Colored Pencils, Assorted Colors	S04194	12/Pack	\$4.00
Wax Pencils, Black	S04191	Each	\$0.96
<b>Containers and Trays</b>			
Deli Container, PET, 16 oz., Without Lid	S04576	Each	\$0.85
Foam Trays, White, 9 x 12 in.	S04188	Each	\$0.35
Plastic Shoe Box	S04169	Each	\$5.95

Visit [fisheredu.com](http://fisheredu.com) or contact your Fisher Science Education sales representative to access our full selection of products.

# Products to Complete Your Makerspace



Description	Cat. No.	Quantity	Price
<b>Utensils</b>			
Metal Teaspoon, L: 6 in.	S04586	Each	\$1.05
Plastic Forks	S04176	100/Pack	\$9.45
Plastic Teaspoons	S04175	100/Pack	\$9.45
Stainless-Steel Scoop, L: 6 in.	S04582	Each	\$6.45
<b>Miscellaneous</b>			
Balloons, Assorted Colors	S04187	144/Pack	\$27.75
Coffee Filters	S04185	200/Pack	\$3.90
Diecast Toy Cars, Assorted Styles	S04578	Each	\$4.20
Dowel Rod, Dia. x L: 0.5 x 15 in.	S04172	Each	\$2.50
Electrical Tape, Black, 0.75 in. x 30 yd.	S04192	Roll	\$2.30
Fine Sand	S042864	4 Cups	\$5.25
Flat Washer, I.D. x O.D.: 0.31 x 0.75 in.	S04584	Each	\$0.65
Magnifying Glass, with Handle	S04173	Each	\$3.70
Marbles, Assorted Colors	S04581	16/Pack	\$6.20
Modeling Clay, 4 Colors	S04179	Each	\$3.55
Paper Towels, 70 Sheets/Roll	S04573	Each	\$4.20
Pipe Cleaners, Assorted Colors	S04181	100/Pack	\$7.40
Pipe Cleaners, Assorted Colors	S04193	1,000/Pack	\$72.50
Plastic Funnel, O.D. x L: 3.9 x 3.35 in.	S04580	Each	\$4.15
Potting Soil	S04177	6 Cups	\$7.35
Potting Soil	S042858	8 Cups	\$9.55
Ring Magnet, O.D.: 1.14 in. (2.9cm)	S04585	Each	\$1.65
Round Toothpicks	S04180	800/Pack	\$5.00
Rubber Bands, No. 64	S04189	1 lb./Pack	\$17.00
Steel Wool, No. 1	S04183	16/Pack	\$13.25
Styrofoam Balls, White, Dia.: 1 in.	S04571	12/Pack	\$10.25
Vegetable Oil	S04587A	24 oz.	\$9.85
White Vinegar	S04577	32 oz.	\$6.75
Resealable Bags, L x W: 6 x 6 in.	S04588	100/Box	\$10.25

Visit [fisheredu.com](http://fisheredu.com) or contact your Fisher Science Education sales representative to access our full selection of products.



## Tools

## United Scientific™ Seven-Piece Tool Kit

High quality and functional.

Drop-forged tool kit is perfect for classroom projects. Comes in a recloseable polybag.

### INCLUDES:

- Adjustable crescent wrench, 152mm
- Slip-joint pliers, 152mm
- Long-nose side-cutter pliers, 140mm
- Unbreakable plastic screwdriver handle with four blades (mechanic, Phillips and electrician types)



Cat. No.	Description	Price
S47246	Tool Kit	60.25/Ea

## fisherbrand Labtool II™

Pocket-size, multiuse tools are ideal for hundreds of lab needs.

Stainless-steel tools with aluminum handles open bottles; cut stoppers, tubing and wires; and much more.

### Labtool II

- Includes pliers/gripper, wire stripper, wire cutter, ruler, small/large knife, serrated knife, punch, flat head and Phillips screwdrivers, bottle opener, needle, saw and serrated stripper
- Closed length: 3.5 in. (9cm)
- Weight: 7 oz. (200g)



Cat. No.	Description	Price
S94105	Labtool II	43.75/Ea

## Soldering Station

Electronically controlled.

- Ideal for professionals, students, and hobbyists.
- Provides 5 to 40 watts
- ON/OFF indicator light

### INCLUDES:

- Holder funnel for the iron
- Sponge pad for cleaning the tip



Cat. No.	Description	Price
S65269	Sponge Pad, with Iron	50.95/Ea

## Lead-Free Solder Tube

Assists in soldering.



- Rosin core

Cat. No.	Description	Price
S97692	Lead-Free Solder Tube	5.80/Ea

## Elmo Teaching Tool

Popular with teachers because of its simple “plug and play” connection options, ability to display 3 dimensional objects, documents and anything can be put on the stage.

- Need to be connected to a projector or monitor to view images
- Convenient unique design
- 42.4X zoom with auto focus
- Versatile input/output connections
- Auto brightness control
- Removable stage
- Microscope viewing mode
- Capture vivid live images



### Model: TT-02S

- Big 14.3 x 10.7 in. scanning area
- Folds into compact notebook size
- 2.25 x 13.375 x 7.25 in. folded
- Built-In SD card slot
- LED lighting source
- Focus free technology
- Easy plug and play connections to PC and projector
- True XGA capture and output resolution
- RGB PC connection for laptop switching
- 8x electronic macro zoom
- Weighs 4.2 lb.

Cat. No.	Description	Price
S98515ND	With USB Interface	939.45/Ea



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MAKE IT AMAZING!

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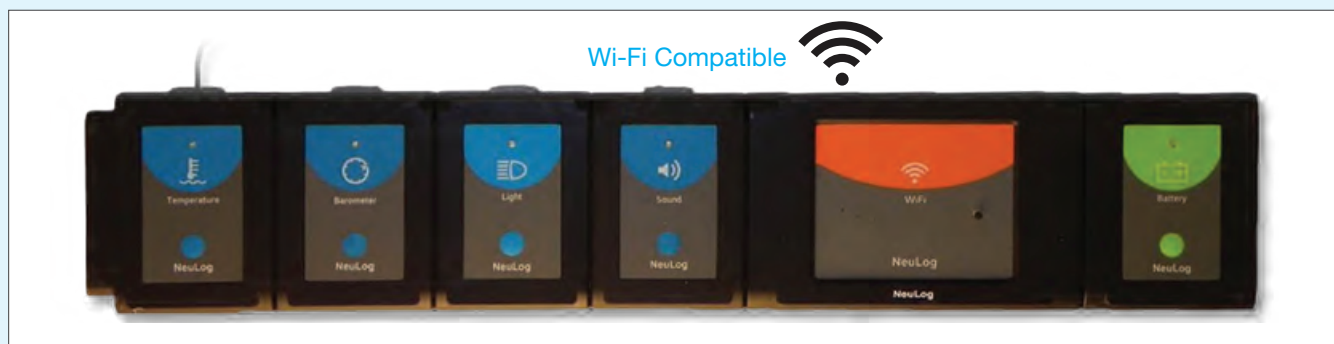
# CAREER AND TECHNOLOGY EDUCATION

## NeuLog Neuron Logger Sensors



### Flexible, Fast, and Simple

The NeuLog™ system is so powerful and flexible because each sensor is like a tiny computer, a datalogger with flash memory, and a sensor all in one. Turn science study into an easy and fun classroom experience.



### Compatible with Many Devices

- PC
- Mac
- Tablets
- Smartphones

### Multiple Connection Options

- USB
- Wireless
- Stand-alone viewer

### Designed to Work with Future Technologies

- Browser-based software will work with any hardware and software of the future without the need for upgrades

### Cost-Effective Solution

- No need to purchase expensive hubs or additional software

### Adaptable

- Use probes simultaneously
- Interchangeable sensors
- Ideal for any experiment
- Suitable for any age level

### Modular Plug and Play

- Allows connection of sensors in any order
- No calibration required
- Instant readings
- No set-up time

Visit [fisheredu.com/neulog](http://fisheredu.com/neulog) to learn more.



## How to Get Started



### 1. Sensors

Select the type of sensor you need to collect data for your experiments and demonstrations — over 40 sensors are available. See page 15 or visit [fisheredu.com/neulog](http://fisheredu.com/neulog) for our full sensor listing.



### 2. Hardware


Determine the type of hardware to be used in your classroom and the devices your students will most commonly use, such as PCs, tablets, etc.




### 3. Connection

How do you want your sensors to send data to your hardware? See options below:


## Options



**PC**  
USB Module (S98243-45ND)  
— OR —  
RF Communication Module (S98243-46ND)  
— OR —  
Wi-Fi Module (S04485ND)



**Tablets and Smartphones**  
Wi-Fi Module (S04485ND)



**Not sure?**  
Graphic Display (S98243-43ND) is perfect for graphing from a lab  
— OR —  
Basic Digital Display (S98243-42ND) is ideal for basic data value output similar to a multimeter

All options require a **Battery Module** (S98243-44ND)



# CAREER AND TECHNICAL EDUCATION Data Collection

Choose from over 45 NeuLog sensors.



## NeuLog Modules and Displays



Description	Cat. No.	Price
Wi-Fi Module	S04485ND	\$170.00
Basic Digital Display	S98243-42ND	\$69.75
Digital Graphic Display	S98243-43ND	\$151.00
USB Module	S98243-45ND	\$47.00
RF Module	S98243-46ND	\$85.00
Battery Module	S98243-44ND	\$55.50
Carrying Case	S98243-47ND	\$61.75

## NeuLog Sensors

Description	Cat. No.	Price
Acceleration Logger Sensor	S98243-54ND	\$100.00
Ammonium Ion-Selective Logger Sensor	S98243-18ND	\$375.00
Anemometer Logger Sensor	S98243-57ND	\$135.00
Barometer Logger Sensor	S98243-1ND	\$78.00
Blood Pressure Logger Sensor	S98243-2ND	\$120.00
Calcium Ion-Selective Logger Sensor	S98243-16ND	\$373.00
Charge Logger Sensor	S98243-60ND	\$136.00
Chloride Ion-Selective Logger Sensor	S98243-17ND	\$386.00
CO <sub>2</sub> Logger Sensor	S98243-3ND	\$260.00
Colorimeter Logger Sensor	S98243-4ND	\$125.00
Conductivity Logger Sensor	S98243-5ND	\$110.00
Current Logger Sensor	S98243-6ND	\$47.25
Dew Point Logger Sensor	S98243-59ND	\$85.00
EKG Logger Sensor	S98243-10ND	\$161.00
Drop Counter Logger Sensor	S98243-52ND	\$96.00
Flowrate Logger Sensor	S98243-11ND	\$140.00
Force Logger Sensor	S98243-9ND	\$129.00
Force Plate Logger Sensor	S98243-12ND	\$255.00
Hand Dynamometer Logger Sensor	S98243-14ND	\$163.00
Galvanic Skin Response (GSR) Logger Sensor	S98243-51ND	\$125.00
Geiger Counter Logger Sensor	S23714	\$657.00
Neuron GPS Logger Sensor	S98243-58ND	\$157.00
Heart Rate and Pulse Logger Sensor	S98243-15ND	\$58.50
High-Temperature Logger Sensor	S98243-34ND	\$71.75
Humidity Logger Sensor	S98243-27ND	\$77.00

Description	Cat. No.	Price
Infrared Thermometer Logger Sensor	S98243-32ND	\$230.00
Light Logger Sensor	S98243-20ND	\$55.50
Magnetic Field Logger Sensor	S98243-21ND	\$64.25
mA Current Logger Sensor	S23715	\$50.25
Motion Logger Sensor	S98243-23ND	\$100.00
Nitrate Ion-Selective Logger Sensor	S98243-19ND	\$387.00
Oxygen Logger Sensor	S98243-8ND	\$237.00
Panda Multi-Sensor	S13941	\$299.00
Panda Wi-Fi Module	S13942	\$161.00
pH Logger Sensor	S98243-24ND	\$97.00
Photogate Logger Sensor	S98243-25ND	\$67.50
Pressure Logger Sensor	S98243-13ND	\$95.00
Resistance Logger Sensor	S23716	\$50.00
Respiration Monitor Belt Logger Sensor	S98243-55ND	\$178.00
Rotary Motion Logger Sensor	S98243-53ND	\$182.00
Salinity Logger Sensor	S98243-29ND	\$100.00
Soil Moisture Logger Sensor	S98243-30ND	\$98.00
Sound Logger Sensor	S98243-22ND	\$92.00
Spirometer Logger Sensor	S98243-28ND	\$134.00
Surface Temperature Logger Sensor	S98243-33ND	\$33.00
Temperature Logger Sensor	S98243-31ND	\$38.75
Turbidity Logger Sensor	S98243-35ND	\$129.00
UVA Logger Sensor	S98243-36ND	\$112.00
UVB Logger Sensor	S98243-37ND	\$112.00
Voltage Logger Sensor	S98243-7ND	\$48.75



## Data Collection

## Eisco NeuLog™ Panda

The Eisco™ NeuLog™ Panda is a multi-sensor module with 9 built-in sensors. It is ideal for younger scientists and students that wish to seamlessly and easily collect data.

- Sensors built into unit: Ambient Temperature, Light Intensity, Sound, Barometer, Altitude, Humidity, Dew-Point, Acceleration, Magnetic Field
- 4 Color Touch Screen with USB Connectivity and built in battery, system can fully integrate with any NeuLog sensor
- USB connecting cable included, Panda can connect to PC or Mac
- Software is free to download at Neulog
- Temperature (12 bit): -13 to 140°F (can read Celsius or Fahrenheit), Light (16 bit): 1000 to 240,000 lux, Barometer (24 bit): 80 to 110 kPa (Can Read Kpa, atm, Hg, mmHg), Altitude (24 bit): -722 to 2000m, Sounds (12 bit): 40 to 110 dB, Humidity (16 bit): 0 to 100 percent, Dew-Point (12 bit): 114 to 109°Celsius, Acceleration (16 bit): 3 Axis -20 to 20 meters per second squared, Magnetic Field (16 bit): 3 Axis -200 to 200 micro Tesla



Cat. No.	Description	Price
S13941	Panda	299.00/Ea
S13942	Panda WiFi Module	161.00/Ea

## Eisco NeuLog™ WiFi Communication Module

Add convenience and efficiency to your workflow. The Eisco™ NeuLog™ WiFi Communication Module allows NeuLog sensor measurements to be performed through any device which uses WIFI technology.

- Intuitive and user friendly
- Allows saving and loading experiments
- Can be operated in client mode through the local router enabling also surfing to other sites
- No need for a USB module; it is part of WiFi module
- Should be connected to a power supply or to a BAT-200 battery module
- The teacher can view student experiments in remote view
- Students can view the teacher's experiment on their table



Cat. No.	Description	Price
S23772	NeuLog WiFi Communication Module	170.00/Ea



## Go Direct™ Sensors

Give your students the experience of hands-on learning with these easy-to-use, real-time data collection tools.

Description	Cat. No.	Price
3-Axis Magnetic Field	<b>S39696</b>	\$69.00
Acceleration Sensor	<b>S39697</b>	\$99.00
CO <sub>2</sub> Gas Sensor	<b>S39703</b>	\$199.00
Colorimeter	<b>S39704</b>	\$119.00
Conductivity Meter	<b>S39705</b>	\$99.00
Constant Current System	<b>S39701</b>	\$74.25
Current System	<b>S39707</b>	\$74.25
Drop Counter	<b>S39708</b>	\$99.00
EKG Sensor	<b>S39710</b>	\$159.00
Electrode Amp	<b>S39709</b>	\$64.25
Energy Sensor	<b>S39721</b>	\$89.00
Exercise Heart Rate Monitor	<b>S16166ND</b>	\$79.00
Flat pH Sensor	<b>S39712</b>	\$109.00
Force and Acceleration Sensor	<b>S39711</b>	\$99.00
Gas Pressure Sensor	<b>S39713</b>	\$89.00
Glass-Body pH Sensor	<b>S39714</b>	\$139.00
Heart Rate Monitor	<b>S16167ND</b>	\$89.00
Light and Color Sensor	<b>S39716</b>	\$79.00
Melt Station	<b>S39718</b>	\$529.00
Motion Detector	<b>S39717</b>	\$99.00
O <sub>2</sub> Gas Sensor	<b>S39722</b>	\$189.00
Optical Dissolved Oxygen Probe	<b>S39723</b>	\$299.00
ORP Sensor	<b>S39724</b>	\$99.00
pH Sensor	<b>S39725</b>	\$89.00
Radiation Monitor	<b>S39727</b>	\$179.00
Respiration Monitor Belt	<b>S39728</b>	\$99.00
Rotary Motion Sensor	<b>S39729</b>	\$179.00
Sensor Cart, Green	<b>S39699</b>	\$169.00
Sensor Cart, Yellow	<b>S39700</b>	\$169.00
Spectro-Vis Plus Spectrophotometer	<b>S16260ND</b>	\$416.00
Surface Temperature Sensor	<b>S39730</b>	\$69.00
Temperature Sensor	<b>S39731</b>	\$69.00
Voltage Probe	<b>S39733</b>	\$69.00
Wide-Range Temperature Sensor	<b>S39734</b>	\$109.00



Wide-Range  
Temperature Sensor  
S39734



Surface Temperature Sensor  
S39730



Gas Pressure Sensor  
S39713



CO<sub>2</sub> Gas Sensor  
S39703



Motion Detector  
S39717



Force and Acceleration Sensor  
S39711





## Vernier Lab Books



### A Great Value

Vernier lab books are loaded with teacher tips, sample graphs and more. When you buy the lab book, you will receive

- Essential teacher information
- Ready-to-use student versions
- A generous site license — buy one book and duplicate experiments for your class

- Easily modify written lab procedure outlines (recorded on a CD in Microsoft™ Word™) to match your personal teaching style
- Suggested answers, sample data and graphs
- A complete equipment and supplies list

Visit [vernier.com/labs](http://vernier.com/labs) to download evaluation PDFs for all student experiments, and visit [vernier.com/books](http://vernier.com/books) to find other available books.

Description	Cat. No.	Price
Advanced Biology	<b>S16096ND</b>	\$49.00
Advanced Chemistry	<b>S16119ND</b>	\$48.50
Advanced Physics — Beyond Mechanics	<b>S16240ND</b>	\$48.50
Advanced Physics — Mechanics	<b>S15966ND</b>	\$48.50
Agricultural Science	<b>S15976ND</b>	\$48.50
Biology	<b>S16045ND</b>	\$49.00
Chemistry Investigations for AP Chemistry	<b>S16079ND</b>	\$48.50
Chemistry	<b>S16047ND</b>	\$49.00
Ciencia en la Primaria con Vernier	<b>S16132ND</b>	\$48.00
Ciencias con lo Mejor de Vernier	<b>S16126ND</b>	\$48.50
Earth Science	<b>S15989ND</b>	\$49.00
Elementary Science	<b>S15985ND</b>	\$48.00
Engineering Projects	<b>S16145ND</b>	\$48.50
Engineering Projects with NI LabVIEW and Lab Book	<b>S16024ND</b>	\$48.00
Forensics	<b>S16038ND</b>	\$30.25

Description	Cat. No.	Price
Hands-On Introduction to NI LabVIEW	<b>S16193ND</b>	\$25.00
Human Physiology	<b>S16036ND</b>	\$48.75
Investigating Biology through Inquiry	<b>S16097ND</b>	\$49.00
Investigating Chemistry through Inquiry	<b>S15961ND</b>	\$48.50
Investigating Environmental Science through Inquiry	<b>S16049ND</b>	\$49.00
Investigating Wind Energy	<b>S16144ND</b>	\$25.25
Let's Go Investigating Temperature	<b>S16143ND</b>	\$25.25
Middle School Science	<b>S15962ND</b>	\$48.75
Organic Chemistry	<b>S16120ND</b>	\$48.50
Physical Science through Inquiry	<b>S16057ND</b>	\$49.00
Physics	<b>S16046ND</b>	\$49.00
Real-World Math	<b>S15986ND</b>	\$48.25
Renewable Energy	<b>S16244ND</b>	\$48.50
Water Quality	<b>S16289ND</b>	\$48.50

## Vernier Sensors

### Outstanding Performance

Vernier sensors are designed specifically for education and are held to high standards for quality and durability. Vernier sensors are rugged, classroom-proven technology that are well supported and easy to use.

### Generous Warranty

Buy with confidence. Most Vernier sensors are covered by a 5-year warranty. In Vernier's 35 years of business, we have rarely charged a customer for a repair, no matter how old the equipment.

*"Vernier's range of compatible sensors available was extensive... We have found the equipment extremely useful in demonstrating how our simplistic experiments relate to, and might be conducted in industry. In some of our experiments, the equipment provided more teaching time without taking the practical element of the sciences away. The LabQuest 2 has also allowed us to carry out meaningful experiments that we have not been able to do before."*

Chris Jessop, AKS School

Description	Cat. No.	Price
<b>Accelerometers</b>		
25g Accelerometer	<b>S16076ND</b>	\$93.00
3-Axis Accelerometer	<b>S16061ND</b>	\$101.00
Low-g Accelerometer	<b>S16183ND</b>	\$90.00
Anemometer	<b>S15963ND</b>	\$90.00
Barometer	<b>S16065ND</b>	\$72.00
Blood Pressure Sensor	<b>S16101ND</b>	\$105.00
Charge Sensor	<b>S16133ND</b>	\$76.00
CO <sub>2</sub> Gas Sensor	<b>S16055ND</b>	\$261.00
Colorimeter	<b>S16008ND</b>	\$117.00
Conductivity Probe	<b>S16128ND</b>	\$96.00
Constant Current System	<b>S15977ND</b>	\$60.00
<b>Current Probes</b>		
Current Probe	<b>S16059ND</b>	\$39.75
High Current Sensor	<b>S16014ND</b>	\$79.00
Digital Control Unit	<b>S16068ND</b>	\$61.00
Dissolved O <sub>2</sub> Probe (Optical)	<b>S16228ND</b>	\$301.00
Drop Counter	<b>S16274ND</b>	\$100.00
EKG Sensor	<b>S16142ND</b>	\$149.00
Electrode Amplifier	<b>S15995ND</b>	\$40.25
Energy Sensor	<b>S16277ND</b>	\$80.00
Ethanol Sensor	<b>S16146ND</b>	\$110.00
Flowrate Sensor	<b>S16151ND</b>	\$129.00
<b>Force Sensors</b>		
Dual-Range Force Sensor	<b>S16050ND</b>	\$112.00
Force Plate	<b>S16152ND</b>	\$276.00
Structures & Materials Tester	<b>S16280ND</b>	\$999.00
Gas Pressure Sensor	<b>S16052ND</b>	\$85.00
Goniometer	<b>S16160ND</b>	\$160.00
Hand Dynamometer	<b>S16174ND</b>	\$100.00
<b>Heart Rate Monitors</b>		
Go Wireless Heart Rate Sensor	<b>S16167ND</b>	\$89.00
Hand-Grip Heart Rate Monitor	<b>S16175ND</b>	\$119.00
Instrumentation Amplifier	<b>S16176ND</b>	\$79.00
<b>Ion-Selective Electrodes</b>		
Ammonium Ion-Selective Electrode	<b>S16214ND</b>	\$200.00
Calcium Ion-Selective Electrode	<b>S16108ND</b>	\$200.00
Chloride Ion-Selective Electrode	<b>S16122ND</b>	\$200.00
Nitrate Ion-Selective Electrode	<b>S16217ND</b>	\$200.00
Potassium Ion-Selective Electrode	<b>S16033ND</b>	\$200.00



PH Sensor  
S16238ND



SpectroVis™ Plus  
Spectrophotometer  
S16260ND



Melt Station  
S16204ND





## Vernier Sensors

Description	Cat. No.	Price
Light Sensor	S16192ND	\$55.25
Magnetic Field Sensor	S16064ND	\$59.00
Melt Station	S16204ND	\$510.00
Microphone	S16195ND	\$39.50
Mini GC Plus Gas Chromatograph	S16007ND	\$2022.00
Go!Motion Motion Detector	S16162ND	\$120.00
O <sub>2</sub> Gas Sensor	S16069ND	\$199.00
ORP Sensor	S16044ND	\$83.00
PAR Sensor	S16234ND	\$201.00
<b>pH Sensors</b>		
Go Wireless pH Sensor	S16168ND	\$79.00
pH Sensor	S16238ND	\$80.00
Tris-Compatible Flat pH Sensor	S15956ND	\$100.00
Photogate	S16279ND	\$46.00
Polarimeter. Chemical	S16121ND	\$510.00
Power Amplifier	S15958ND	\$200.00
Projectile Launcher	S15975ND	\$336.00
Pyranometer	S16243ND	\$215.00
Radiation Monitor	S15994ND	\$172.00
Relative Humidity Sensor	S16066ND	\$70.00
Respiration Monitor Belt	S16070ND	\$63.00
Rotary Motion Sensor	S16245ND	\$172.00
Salinity Sensor	S16246ND	\$119.00
Soil Moisture Sensor	S16250ND	\$100.00
Sound Level Meter	S16249ND	\$210.00
<b>Spectrometers</b>		
Emissions Spectrometer	S16283ND	\$799.00
SpectroVis Plus Spectrophotometer	S16260ND	\$416.00
UV-VIS Spectrophotometer	S16285ND	\$2065.00
Spirometer	S16251ND	\$199.00
<b>Temperature Probes</b>		
Extra-Long Temperature Probe	S16269ND	\$100.00
Go Wireless Temp Temperature Sensor	S16172ND	\$59.00
Go!Temp USB Temperature Probe	S16037ND	\$40.00
Infrared Thermometer	S15984ND	\$199.00
Stainless Steel Temperature Probe	S16268ND	\$29.50
Surface Temperature Sensor	S16259ND	\$23.25
Thermocouple	S16263ND	\$69.25
Wide-Range Temperature Probe	S16290ND	\$85.00
Turbidity Sensor	S16071ND	\$114.00
<b>UV Sensors</b>		
UVA Sensor	S16272ND	\$107.00
UVB Sensor	S16273ND	\$108.00
<b>Voltage Probes</b>		
30-Volt Voltage Probe	S16075ND	\$49.00
Differential Voltage Probe	S16060ND	\$39.75
Voltage Probe	S16072ND	\$12.00
Wireless Dynamics Sensor System	S16041ND	\$250.00



DO Probe  
S16228ND



CO<sub>2</sub> Gas Sensors  
16055ND



Hand-Grip  
Heart Rate Monitor  
S16175ND

Math

Calculators

### Texas Instruments™ TI-108 Calculator

TI's most widely used school calculator.

- Takes standard classroom functions further with percent, square root, memory keys and a ± key
- Bright, color-coded keyboard has hard plastic keys
- Solar panel operates in low light; never needs batteries
- Slide case helps protect calculator
- A kit for your whole classroom; includes 10 calculators, storage caddy, poster and instructional materials in English and Spanish



### Texas Instruments™ TI-30Xa Calculator

Performs 54 commonly used scientific/statistical functions.

Find common/natural logarithms, antilogarithms, reciprocals, powers, roots, factorials and trigonometric calculations.

- Algebraic Operating System (AOS) makes calculating easy
- Recalls a number, even after being shut off
- LCD displays floating decimal or scientific notation
- Shows eight digits or five digits and a two-digit exponent



**INCLUDES:**

Hard cover case and quick reference card

Cat. No.	Description	Price
S43195	TI-108 Calculator	12.75/Ea
S43195TP	Teacher Kit	104.00/Ea

Cat. No.	Description	Price
S40649	TI30Xa Calculator	17.50/Ea

### Texas Instruments™ TI-15 Calculator

Constant operations with counters help build tables.

- Develops the concepts of multiplication, division, powers and units of measurement
- Combines fraction capabilities with problem-solving function, place value and more
- Two-line display shows entries and results at the same time
- Review previous entries and results while allowing students to look for patterns



**ORDERING INFORMATION:**  
Teacher pack also available (Cat. No. S90262TP).

Cat. No.	Description	Price
S65240	TI-15 Calculator	24.00/Ea

### Texas Instruments™ TI-30X IIS Calculator

Combine basic scientific and trigonometric functions.

- Two-line display shows entries on top line and results on bottom line
- 11-character display on top line can be scrolled left or right — up to 88 characters
- 10-character display on bottom line can include a two-digit exponent, fraction display capabilities, operation with mixed fractions and numbers, fraction/decimal conversion, and degrees/radians conversion
- Can be powered by solar and battery



Cat. No.	Description	Price
S65241	TI-30X IIS Scientific Calculator	22.25/Ea



## Texas Instruments™ TI-36X Pro Solar Calculator

Ideal for high school through college courses including Algebra 1 and 2, Geometry, Trigonometry, Statistics, Calculus and Biology, as well as curricula in which graphing technology is not permitted.

MultiView™ display shows multiple calculations at the same time on screen while MathPrint™ shows math expressions, symbols and stacked fractions as they appear in textbooks.



- Input data, scroll through entries and make edits like using a graphing calculator
- Convert fractions, decimals and terms including Pi into alternate representations
- Select degrees/radians, floating/fix, number format modes
- Store real numbers and expressions that result in real numbers as one of seven available memory variables
- Enter data in up to three lists — any list formulas entered can accept calculator functions
- Choose from three solvers: numeric equation, polynomial and system of linear equations
- Display a defined function in a tabular form
- Determine the numeric derivative and integral for real functions
- Perform vectors and matrices using a vector and matrix entry window
- Choose from nine physical constants that can be pasted into various windows and an easy-to-use menu that includes 18 metric/English conversions
- Battery powered with solar cell assistance to lengthen battery life

Cat. No.	Description	Price
S40642A	TI-36X Pro Solar Calculator	42.75/Ea

## Texas Instruments™ TI-84 Plus Calculators

Preloaded with interactive geometry software and more.

Extensive graphing and functions like parameter, polar, sequence, choice of graph formats, logic operations, interactive equation solver, matrices and more.



- Data analysis includes scatter plots and statistics
- Share data with the TI-83 Plus
- Mini USB cable enables instant computer connectivity
- Connect to ViewScreen™ panel (S66344) or TI-Presenter™ projection devices
- Powered by four AAA batteries with lithium battery backup
- Automatic Power Down™ (APD) capabilities

### Specifications

- 64 × 96 pixel display with split screen
- 24K available memory Flash ROM: 480K for Plus; 1.5MB for Plus Silver
- Clock
- I/O and USB ports

### WARRANTY:

One year limited

Cat. No.	Description	Price
S68601	TI-84 Plus Calculator	126.00/Ea

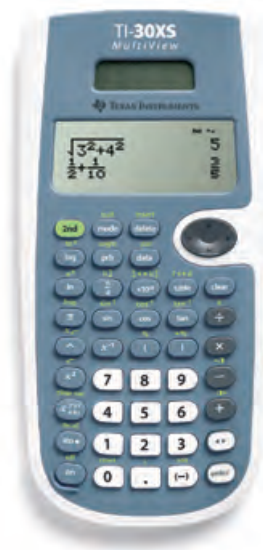
## Texas Instruments™ TI-30XS MultiView™ Scientific Calculator

Appropriate for general math, pre-algebra, algebra I and II, geometry, trigonometry, statistics, general science and biology.

Offers a four-line display to view multiple calculations and answers simultaneously. Easily scroll, review and edit current or previous entries.

- MultiView™ display
- Toggle key
- Scrolling and editing
- Stacked fractions
- Standard mathematical notation
- Scientific notation input and output
- Vertical menus
- Data/list editor

Cat. No.	Description	Price
S96892	TI-30XS MultiView Scientific Calculator	25.25/Ea



## Texas Instruments™ TI-Nspire™ CX Handheld Calculator

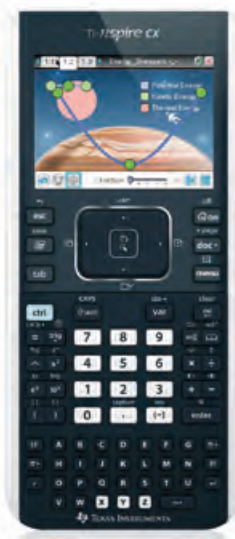
The perfect solution for the classroom, lab and field.

Explore dynamic simulations and collect data with Vernier™ sensors. A virtual and real-world way to explore science.

- Explore hundreds of **free** TI-Nspire biology, chemistry, physics and earth science lessons and simulations from middle to high school grades at [www.sciencenspired.com](http://www.sciencenspired.com)
- Instantly turn TI-Nspire CX handheld into data collection device by attaching Vernier EasyLink™ USB interface and sensor
- For advanced data collection, use the TI-Nspire Lab Cradle (sold separately); supports simultaneous use of up to five Vernier sensors
- Use digital images or your own photos to connect science concepts with real-world scenarios
- Touchpad navigation works more like a laptop computer
- Approved for standardized tests — SAT™, PSAT/NMSQT™, ACT™, IB and AP exams
- Screen size: 320 × 240 pixels (3.2 in. [8.1cm] diagonal)
- Screen resolution: 125 dpi; 16-bit color
- Memory: 100MB storage memory/64MB operating memory

**INCLUDES:**

- Handheld: One handheld, TI-Nspire student software and TI-Nspire rechargeable battery
- Teacher Pack: Ten handhelds with rechargeable batteries installed, 90-day trial of TI-Nspire and CAS Teacher Software, ten USB cables, five unit-to-unit cables, one manual, docking station and poster



Cat. No.	Description	Price
S02278ND	Color Graphing Calculator	233.00/Ea
S02280ND	Teacher Pack	2106.00/Ea

## Texas Instruments™ TI-89 Titanium Calculator

Computer algebra system; official AP™ calculus review questions on the enclosed product CD.

Graphing functions include parametric, polar, sequence, differential equations, slope fields, RK, Euler, contour and implicit plotting, and more. Physical constants, unit conversions ideal for engineering and physics applications.

- Calculate derivatives and integrals, limits, max./min., sequences and series
- Solve equations using linear and nonlinear systems
- 3-D graphing with real-time rotation
- Vector and matrix calculations and functions
- Statistics functionality includes multiple regressions/tests/ intervals, ANOVA 2-way, and goodness of fit
- I/O and USB ports; mini USB cable enables instant computer connectivity
- Use with ViewScreen™ LCD Panel (sold separately) for display projection
- Automatic Power Down™ (APD) capabilities
- EE-Pro™ software for electrical engineering
- RAM Memory, 188K; Flash ROM, 2.7MB
- Uses four AAA batteries with lithium backup

**INCLUDES:**

EE-Pro software for electrical engineering

**WARRANTY:**

One year, limited



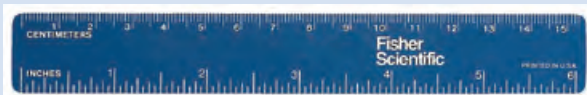
Cat. No.	Description	Price
S68603	Ti-89 Titanium Calculator	267.00/Ea



## Measurement

**fisherbrand** Measuring Ruler

Useful conversion tables make this a valuable laboratory tool.



- Inexpensive, blue vinyl
- Graduated from 0 to 6 in. and 0 to 150mm
- Temperature conversion scale from  $-20^{\circ}$  to  $+100^{\circ}\text{C}$ , and  $-10^{\circ}$  to  $+212^{\circ}\text{F}$
- Scale for quickly determining cork and rubber stopper sizes
- Length: 15cm

Cat. No.	Price
S40641	5.05/Ea
S40641P	7.95/Ea

**Solid Hard Maple Meter Sticks**

Premium quality, solid North American Maple.

- Lacquered finish for optimum durability
- Won't dent or warp
- Scaled in millimeters on one side and inches in 0.125 in. increments on the other
- Dimensions: 1.125W x 0.31 in. thick ( $2.85 \times 0.8\text{cm}$ )



Cat. No.	Description	Price
S32052	Metal End and Hanging Hole	10.30/Ea
S32051	Plain End	6.50/Ea

**English/Metric Meter Sticks**

- Front is ruled in metric units with millimeter increments on both edges
- Back is ruled in inches with 0.125 in. increments
- Made of pine with a multiple-coat clear lacquer finish for increased durability
- Dimensions: 1W x 0.25 in. thick ( $2.54 \times 0.63\text{cm}$ )
- Length: 1m
- Plain ends

Cat. No.	Description	Price
S40625	Meter Sticks	6.00/Ea

**Eisco Vernier Calliper**

Plated steel, columbus type calliper enables the user to read either inside, outside or depth measurements.



- Dual scale 0 to 12.5cm x 0.1mm
- Imperial scale graduated to 5 x 0.0078 in. provided with thumb wheel for easy motion of jaws, in plastic case

Cat. No.	Description	Price
S99340	0 to 12.5cm x 0.1mm Dual Scale; Graduated to 5 x 0.0078 in.	6.70/Ea

**12-Inch Rulers**

Made of shatter-resistant material.

- Inch and metric calibrations
- Clear ruler is shatterproof
- Flexible and clearview rulers are shatter-resistant; available in packs of 12 with two each of red, green, blue, orange, yellow and purple



Cat. No.	Description	Price
S90532C	12-inch Shatterproof Ruler	0.90/Ea

**HEADLINE DISCOVERIES:**  
SCIENCE HAPPENS

Keep informed and check out the latest edition at [fisheredu.com/headlinediscoveries](http://fisheredu.com/headlinediscoveries).

## fisherbrand Traceable™ Digital Carbon Fiber Calipers

Switch between inches and millimeters easily.



- For measuring outside or inside diameter
- Zero button instantly resets unit at any position
- Greater-than or less-than results without calculations
- Ergonomically designed
- No lubrication is ever required on the ultra-smooth slide bar
- Runs on the supplied battery for 10,000 hours
- Made of strong composite carbon fiber
- Resolution: 0.01 in. and 0.1mm
- Accuracy: ±0.01 in. and ±0.2mm
- Large digital display: 0.3 in.H (7.6mm)

### 4 in. (10.2cm) Caliper

- Range: 0 to 4 in. (0 to 100mm)
- Dimensions: 7 × 2.5 in. (17.7 × 6.4cm)
- Weight: 1 oz. (28g)

### 6 in. (15.2cm) Caliper

- Range: 0 to 6 in. (0 to 150mm)
- Dimensions: 9.5 × 3 in. (24.1 × 7.6cm)
- Weight: 2 oz. (57g)

### CERTIFICATIONS:

Individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST.

Cat. No.	Weight (Metric)	Price
S90187B	0.05kg	41.75/Ea
S90187A	0.02kg	38.75/Ea

## Liter Set

Teaches students the relationship between volume, mass and shape.



- Set of six graduated, clear containers
- May be filled with liquids or solids
- All are 4.35 in. (11cm) tall
- Hold 0.25 to 1L

### ORDERING INFORMATION:

Grades 3 to 12.

Cat. No.	Description	Price
S94243	Liter Set	26.65/Ea

## Medical Technology

## Diagnostic Pen Light

For examining eyes.

- Reliable robust construction
- Bright illumination
- Compact size
- 5 in. length



### INCLUDES:

2 AAA batteries

Cat. No.	Description	Price
S20671	Pen Light	7.05/Ea

## Electronic Digital Micrometer

Offers metric/inch conversion, origin setting, data hold, relative/absolute measuring and tolerance setting.

- Measures from 0 to 25mm
- Made of hardened and ground stainless steel
- Resolution: 0.001mm
- Accuracy: 0.002mm
- RS-232 port connects micrometer to a printer or computer with user-supplied cable



### INCLUDES:

1.5V battery and impact-resistant ABS case

Cat. No.	Description	Price
S40502A	Electronic Digital Micrometer	429.00/Ea



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MAKING SCIENCE MATTER

Visit us online at [fisheredu.com](http://fisheredu.com) to learn more about our programs, services and resources.

## Tongue Depressors

Standard-size tongue blade.



- Use for oral patient exams and care, gathering specimens from flat surfaces, stirring and more
- 6 in. long (15.2cm) splinter-free white birch — won't leave a taste in the mouth
- Biodegradable
- Nonsterile

Cat. No.	Description	Price
S80332	Tongue Depressors	11.50/Pk

## Applicators

Economical for use in blood-related studies or re-stocking first aid supplies.



- Cotton-tipped applicators have 6 in. long (15.2cm) rigid wood shaft
- Nonsterile

Cat. No.	Description	Price
S450941	Nonsterile Applicators	36.75/Pk

## Medical Student Anatomy Dissection Kit

For first year medical students.



- Approved by American Medical Association (AMA)

### INCLUDES:

- Teasing needle bent with metal chuck
- Teasing needle straight with metal chuck
- Iris scissors fine point, 4.5 in. (114.3mm)
- Surgical scissors 5.5 in. (140mm), one point sharp and one point blunt
- Cartilage knife
- 1 x 2 Teeth tissue forceps, 4.5 in. (114.3mm)
- Dissecting forceps medium point, 4.5 in. (114.3mm) with guide pin
- Scalpel handle No. 3
- Scalpel blade No. 10, for handle No. 3
- Mall probe chrome plated
- Hemostatic forceps 5 in. (127mm), Curved
- Plastic ruler, 6 in. (152mm)

Cat. No.	Description	Price
S07890	Anatomy Dissection Kit; AMA Approved	28.50/Ea

## Medical Student Comprehensive Anatomy Dissection Kit

For first year gross anatomy class.

- Includes surgical steel made tools

### INCLUDES:

- Teasing needle bent with metal chuck
- Teasing needle straight with metal chuck
- Flexible Probe
- Iris scissors fine point, 4.5 in. (114.3mm)
- Surgical scissors 5.5 in. (140mm), one point sharp and one point blunt
- Cartilage knife
- 1 x 2 Teeth tissue forceps, 4.5 in. (114.3mm)
- Dissecting forceps medium point, 4.5 in. (114.3mm) with guide pin
- Scalpel handle No. 3
- Scalpel handle No. 4
- Scalpel blade No. 10, for handle No. 3
- Scalpel blade No. 22, for handle No. 4
- Mall probe chrome plated
- Curved hemostatic forceps, 5 in. (127mm)
- Plastic ruler, 6 in. (152mm)



Cat. No.	Description	Price
S07891	Anatomy Dissection Kit; Comprehensive	35.00/Ea



## Reflex Hammer

A proper tool for testing the integrity of the patellar tendon and other reflexes



Cat. No.	Description	Price
S72118	Reflex Hammer	5.00/Ea

## 3B Scientific™ 3D Deluxe Portable Massage Table

Designed with 3 in. high density small foam and covered in PU vinyl.

- Dual wheel knobs for sturdy height adjustment
- Rubber feet on legs to prevent scratching and sliding on floor
- Adjustable height from 58 to 85cm (24 - 34 in.)
- Color: Blue



Cat. No.	Description	Price
S20689	3D Deluxe Portable Massage Table	266.00/Ea

## 3B Scientific™ Twin Stim™ Digital Electrotherapy Unit

A TENS and EMS combination for muscle stimulation and pain relief. The 3B Scientific Twin Stim™ Digital Electrotherapy Unit is a battery operated pulse generator that sends electrical impulses via electrodes to the body to reach the nerves and underlying muscle group.

- Choice of five modes of TENS and two modes of EMS
- Dual Channel with isolation between channels
- Asymmetrical, bi-phasic square pulse wave form
- Stores 60 sets of operation records
- Adjustable Pulse Amplitude: 0 to 100mA peak into 500 Ohm load each channel
- Adjustable Pulse Rate: from 2 to 150Hz (1Hz/step)
- Adjustable Pulse Width: from 50 to 300 microseconds (10µS/step)
- Adjustable On Time: 2 to 90 seconds (1 sec./step)
- Adjustable Off Time: 2 to 90 seconds (1 sec./step)
- Adjustable Ramp Time: 1 to 8 seconds (1 sec./step)
- EMS Modes: Two: Synchronous, Alternate
- Total Recorded Time: 999 hours
- Voltage: 0 to 50V
- Adjustable Timer: from 5 to 60 minutes or continuous (adjustable in 5 minutes each step); Treatment time countdown automatically
- Dimensions (L x W x H): 10.1 x 6.1 x 2.45cm

Notes: Requires prescription.

**INCLUDES:**

Stimulator, lead wires, one package of high quality self-adhesive electrodes, 9V battery, hard plastic carrying case, instruction booklet.

**WARRANTY:**

Three years.



Cat. No.	Description	Price
S20712	Digital Electrotherapy Unit	49.50/Ea

## United Scientific™ Stethoscopes

Listen to vital signs.

- Ideal for the classroom, especially in the study of respiration and circulation
- Ford medical stethoscope has durable, flexible tubing for years of use
- Teaching stethoscope has 3.8cm Bowles chestpiece and two sets of binaurals joined together so the teacher and student can listen simultaneously
- Bowles-type stethoscope has adjustable, chrome-plated binaurals and PVC Y tubing



Cat. No.	Description	Price
S11007	Ford Stethoscope	20.25/Ea

## GSC Go Science Crazy Blood Pressure Kit

How's your blood pressure today?

Our blood pressure kit includes an aneroid sphygmometer, a stethoscope, extra ear buds, and extra diaphragm, and a carrying case. Use this kit to accurately measure blood pressure or teach your students how to take measurements.



Cat. No.	Description	Price
S24562	Blood Pressure Kit	20.25/Ea

## 3B Scientific™ Advanced Manual Inflate Large Cuff Blood Pressure Monitor

Fast and accurate blood pressure measurement. The 3B Scientific Advanced Manual Inflate Blood Monitor is equipped with a Pressure Rating Indicator and Irregular Heartbeat feature.

- Offers two innovative features, the Pressure Rating Indicator™ and Irregular Heartbeat feature
- Pressure Rating Indicator provides a snapshot of your blood pressure classification based on your measurements and eliminates the guesswork



Cat. No.	Description	Price
S37585	Advanced Manual Inflate Large Cuff Blood Pressure Monitor	54.75/Ea

## Aneroid Sphygmomanometer

For measuring blood pressure.

- Standard size cuff made of nylon with index and range markings for proper positioning
- Black inflation bulb and chrome plated inflation valve with traditional thumb-screw air control
- Equipped with no-pin stop manometer gauge graduated to 300mmHg



### INCLUDES:

Black zippered carrying case

Cat. No.	Description	Price
S20675	Aneroid Sphygmomanometer	23.50/Ea

## 3B Scientific™ MDF™ Bravata Palm™ Aneroid Sphygmomanometer

Durable, accurate, and dependable blood pressure measurement device. The 3B Scientific MDF™ Bravata Palm™ Aneroid Sphygmomanometer has an extra-large gauge with high-contrast dial for easy and accurate readings.

- Lightweight housing and bezel are constructed of high impact absorbing thermoplastic
- Ergonomically-designed palm brace and bulb stabilize manometer and support hand during inflation and air release
- Unsurpassed measurement, convenience and accuracy even in harsh field settings
- Abrasion, chemical, and moisture resistant, adult Velcro™ cuff is constructed of high-molecular polymer nylon
- Cuff is sized to meet American Heart Association recommendations
- Artery indicator label and index range ensure proper cuffing for correct arterial compression
- Single tube seamless inflation bag constructed of crack-resistant, non-sticking, high-density hypoallergenic latex-free PVC
- Universal bladder tube enables compatible cuff exchange with all MDF and other major brands of BP systems
- Chrome plated brass screw-type valve facilitates precise air release rate
- Size: Adult
- Color: Navy Blue



### INCLUDES:

Nylon zippered carrying case with Velcro side pocket, ID tag.

### WARRANTY:

Three years and lifetime calibration.

Cat. No.	Description	Price
S20680	Aneroid Sphygmomanometer	116.00/Ea

### 3B Scientific™ Baseline™ Fingertip Pulse Oximeter

3B Scientific™ Baseline™ Fingertip Pulse Oximeter measures and displays real-time pulse and SpO<sub>2</sub> level

- Compact
- Lightweight
- Large, easy-to-read display
- Automatically shuts off when not in use
- Comes with wrist lanyard



Cat. No.	Description	Price
S20764	Fingertip Puls Oximeter	54.75/Ea

### 3B Scientific™ Baseline™ Hand-Held Body Fat Monitor

Measure body fat and water percentage. The 3B Scientific Baseline Hand Held Body Fat Monitor can be operated in both adult and child modes.

- Made of plastic and steel
- Grip with two hands
- Eight person memory
- Modes: adult and child
- Includes lithium batteries
- Comes in colorful gift box
- Body Fat Range: 4 to 45%
- Body Water Range: 37.8 to 66%
- Dimensions: 20.3 x 17.8 x 5.1 cm
- Weight: 0.23kg



Cat. No.	Description	Price
S20686	Hand Held Body Fat Monitor	32.75/Ea

### Curved Hemostatic Forceps

Curved forceps feature offset tips for accessing hard-to-reach areas during dissection



Cat. No.	Description	Price
S72120	Curved Hemostatic Forceps	5.00/Ea

### Straight Hemostatic Forceps

Straight forceps feature stainless steel precision points



Cat. No.	Description	Price
S72119	Straight Hemostatic Forceps	5.00/Ea

### Economy Suture Pad with Suction Base

DR-Med Economy Suture Pad is to be used practicing suturing skills. Made to simulate skin - can be cut and stitched back together

Constructed of 3-layers with a skin top layer and a muscle bottom layer



Cat. No.	Description	Price
S72152	DR-Med™ Economy Suture Pad with Suction Base	35.00/Ea

### 3B Scientific™ Suture Practice Arm and Leg

Simulated limbs with soft vinyl skin over stitchable foam provide a life-like suturing experience for students.



- Realistic skin texture with wrinkles and pores
- Soft and pliable for easy sewing; sutures will not pull out when tightened
- Each limb has three “wounds” that can be sutured repeatedly until surrounding skin wears out; then, new wounds can be cut
- Over 100 cuts can be made on trainer and each can be sutured several times

Cat. No.	Description	Price
S06807	Suture Practice Arm	194.00/Ea



## Economy Surgical Suture & Stapling Training Kit

Aayan™ Economy Suture & Stapling Training Kit is ideal for medical and veterinary students as well as skilled surgeons. It provides professional practice tools for students to learn techniques of suturing and stapling and surgeons a chance to enhance their skills.

- Ideal for medical and veterinary students as well as skilled surgeons
- Provides professional practice tools for students to learn techniques of suturing and stapling and surgeons a chance to enhance their skills
- The kit contains a medical stapler, staple remover, needle holder, forceps, stitching scissors, disposable scalpel, sutures, and a suturing skin pad all tucked away in a zippered case



Cat. No.	Description	Price
S28745	Aayan Suture and Stapling Training Kit	449.00/PK

## 3B Scientific™ Advanced Four-Vein Venipuncture Training Aid™ – Dermalike II™ Latex Free

Model permits the injection of fluids and withdrawal of blood.

Allows user to improve competency and technique by progressing from easier, larger veins to the more difficult, smaller and deeper veins



- Four barely discernable blue veins in three different sizes, with the fourth vein deeply placed in a semi-transparent, tissue-like material
- “Pop” is felt as the needle enters the vein, followed by a realistic “flashback” of simulated blood, confirming the proper needle placement
- Stain-resistant Dermalike™ material offers 50% less needle drag when accessing the underlying veins, improved tear resistance to allow twice as many “sticks,” no “oily/sticky” surface and requires no baby powder
- The blue veins are made of Dermalike V™, a material with properties more similar to real veins, as you do not use excessive force to access the veins compared to the latex tubing still being used by other manufacturers
- Size: 5 × 10 × 1.5 in.

### ORDERING INFORMATION:

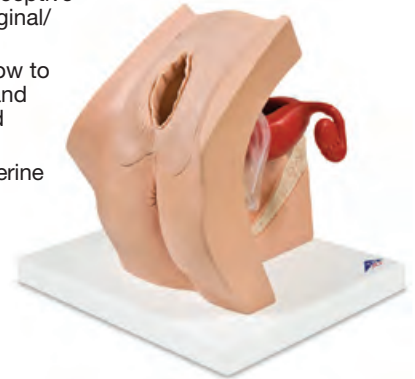
Carrying case (S07961) sold separately.

Cat. No.	Description	Price
S07960	Dark Pigmentation	323.00/Ea
S07959	Light Pigmentation	323.00/Ea

## 3B Scientific™ Model for Gynecological Patient Education

Simplified representation of female pelvis and female genitalia.

- Transparent vaginal wall allows view of inside of vagina
- Clear representation and simple self-check
- For demonstration purposes and for realistic insertion of female barrier contraceptive devices placed in vaginal/cervical area
- Also demonstrate, how to introduce IUD (coil) and show where it should be located
- For practicing intrauterine insemination (IU)



### INCLUDES:

Femidom, FemCap (cervical cap), vaginal ring and diaphragm

Cat. No.	Description	Price
S07950	Gynecological Patient Education Model	429.00/Ea

## FISHER SCIENCE EDUCATION NURSING AND CTE EDUCATION PROGRAMS

Career and Technical Education (CTE) gives students a head start on a future career in a STEM field. The Fisher Science Education brand offers the tools educators need to get them ready.

Visit [fisheredu.com/nursingcte](http://fisheredu.com/nursingcte) for a full list of products available to support your CTE program for nursing, medical technology, and more.



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education  
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### 3B Scientific™ Pregnancy Series

Eight-stage pregnancy models.

The 14-part series includes depictions of placenta, umbilical cord, ovaries, fallopian tubes and cervix. Eight natural-size, vinyl plastic models show the uterus with embryo and fetus in the following stages of pregnancy:



- First month
- Second month
- Third month
- Fourth to fifth month (removable fetus in prone position)
- Fifth month (removable fetus in breech presentation)
- Fifth month (removable fetus lying on its back)
- Seventh month (removable fetus)
- Twin fetuses in fifth month (removable fetuses)

- Each model is individually mounted on a stand and base
- Dimensions: 5 x 5 x 9 in. (12.7 x 12.7 x 22.9cm)

Cat. No.	Description	Price
S17101	14-Part Pregnancy Series	1034.00/Ea

### 3B Scientific™ Nurse Training Model: Newborn Baby

Allows trainees to practice both basic and medical infant care.



- Advanced, incredibly realistic model (male and female)
- Internal organs include heart, lung, intestine system, stomach and bladder
- Removable belly covering
- Interchangeable genital organs
- Soft ears with fully movable head, arms and legs
- Length: 20.3 in. (52cm); Weight: 5.1 lb. (2.3kg)

**Ideal for practicing:**

- Insertion of a tube into mouth or nose
- Male and female catheterization and enema insertion
- Femoral, gluteal intramuscular and subcutaneous injections
- Palpitation of fontanels

**INCLUDES:**

Syringe, suction catheter, feeding tube, urinary catheter, urine collection bag, catheter lubricant and carrying bag

Cat. No.	Description	Price
S96634	Nurse Training Baby, New Born	1033.00/Ea

### Artificial Urine

Simulated urine

- To identify variety of physiological conditions with urine test strips
- Quantity: 500mL
- Includes control with phosphates, albumin, glucose



Cat. No.	Description	Price
S07905	Artificial Urine	78.00/Ea

### Glucose Test Strips

Used in biological courses for detection of glucose concentrations.



- Used in osmosis and diffusion experiments, where one is looking for differences in the diffusion of starch when compared to glucose, in a semi permeable membrane system
- Concentration ranges: 0, 100, 300, 1000 and 3000mg/dL

Cat. No.	Description	Price
S80218	Glucose Test Strips	23.00/Ea

## Veterinary Tech &amp; Animal Science

**3B Scientific™ Animal Cell Model**

Shows form and structure of a typical animal cell as viewed from an electron microscope.

- All important organelles are raised and displayed in color
- Dimensions:  
8.25 × 4.33 × 12.25 in.  
(21 × 11 × 31cm)

**Displays:**

- Nucleus
- Mitochondrion
- Smooth endoplasmic reticulum (ER)
- Rough endoplasmic reticulum (ER)
- Basal membrane
- Collagen fibers
- Golgi apparatus
- Microvilli
- Lysosome

**Carolina™ Articulated Animal Skeletons**

For use in detailed examination. Carolina™ Articulated Animal Skeletons are natural bone animal skeletons that are expertly mounted and covered.

- Frog skeleton is extended and mounted on Plexiglas™ plate in double-view display case
- Toad, rat, and cat skeletons are mounted on base and protected under removable Plexiglas cover



Cat. No.	Description	Price
S96170	Animal Cell Model	371.00/Ea

Cat. No.	Description	Price
S37726	Frog	270.00/Ea
S37725	Rat	380.00/Ea

**Grass Frog Skeleton**

Real skeleton for a 3-D view.



Meticulously cleaned, degreased and accurately mounted, these real-bone skeletons provide three-dimensional perspective that books, charts and models cannot. Invaluable aid for teaching dissection in the classroom. Skeletons are painstakingly assembled with pins and wires for permanence.

**Grass Frog:** *Rana forreri*, mounted with the legs extended between two clear acrylic plates for easy dorsal and ventral viewing; 6 in. (15.2cm) long (extended)

Cat. No.	Description	Price
S66920	Grass Frog	131.00/Ea

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Forensics

Evidence Collection

### Sirchie™ Evidence Integrity Strips

Simply peel the evidence strip away from the liner and apply to evidence.



No need to pass out rolls of tape — simply hand out as many strips as necessary.

- Translucent red with opaque black overprinting
- Printable tape allows you to initial and date items as necessary
- Packaged in easy-feed dispenser box of 100 strips
- Each strip measures 1.375 x 7 in. (35 x 178mm)

Cat. No.	Description	Price
S99539	Evidence Integrity Strips	16.65/Ea

### Evidence Sealing Tapes

Peel-and-stick tape used for sealing items of evidence.

- White tape with black letters reads "Evidence: Do Not Tamper"
- Length: 500 in. (12.7cm)
- Width: 1 in. (2.5cm)



Cat. No.	Description	Price
S69034	Evidence: Do Not Tamper Tape	24.00/Ea

### Sirchie™ "Crime Scene Do Not Cross" Barrier Tape

Helps secure the integrity of a crime scene.

- Eye-catching black lettering printed on brilliant yellow polyethylene
- Simply tie one end of the tape around a fixed item, walk around the scene's perimeter and tie it off where desired
- Warning repeats every 31 in. (78.7cm)
- W x L: 3 in. x 1000 ft. (7.5cm x 300m)



**INCLUDES:**

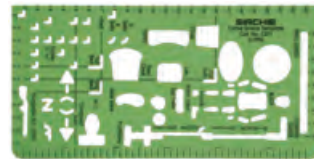
Dispenser box is furnished with each roll.

Cat. No.	Description	Price
S69003A	Barrier Tape; Crime Scene Do Not Cross	28.50/Ea

### Sirchie™ Crime Scene Template

Designed to simplify the drawing of difficult objects found at the crime scene.

- Features segmented human body to permit drawing the human form in the exact position in which it was found
- One quarter-inch scale with conventional 6 in. ruler along the right side; bottom and left sides marked in 0.25 in. increments
- Dimensions: 6.5 x 3.25 in. (16.5 x 8.3cm)



Cat. No.	Description	Price
S99538	Crime Scene Template	18.75/Ea

### Sirchie™ Photo Evidence Scale

Perfect for precise measurement when photographing evidence.

- Durable 6 in. (15.2cm) vinyl rule
- Scales are 0.02 in. thick, and calibrated in both inches and millimeters with crosshairs at each end
- Scales feature a flat finish that eliminates reflections
- Set of 10, white



Cat. No.	Description	Price
S99182	Photo Evidence Scale	17.95/Pk

### Sirchie™ Bio-Foam™ Impression Kit

Quick and easy-to-use system makes footwear impressions without damage or contamination.

- Spray on a thin coating of Aerosol Dust & Dirt Hardener (sold separately)
- Mix and pour in Shake-N-Cast™ ready-to-use casting material (sold separately, S99541)
- Press shoe onto the surface



Cat. No.	Description	Price
S99543	High-Density Impression Kit	11.60/Ea

## Blood Typing Anti-Sera

Use for blood typing of real human blood.



- Five milliliter vial contains enough antisera for 75 students
- Sample will keep over one year with proper refrigeration
- Materials from human-derived cell lines were found to be negative in tests for Hepatitis B, HIV and EBV
- Includes Anti-A & Anti-B, Anti Rh and Anti-H Lectin Anti-sera

DOT: Non regulated

### DISCLAIMERS:

For educational use only. Not FDA approved for clinical use.

Cat. No.	Description	Price
S06626	Blood Typing Anti-Sera	55.00/Ea

## Sirchie™ Longwave UV Mini Light Source

For use in crime scene search and forensic applications.



- Ideal for theft detection in viewing invisible stains, powders and pastes
- Fully portable, battery-operated longwave UV source housed in rugged ABS plastic
- Peak wavelength: 365nm

### ORDERING INFORMATION:

Dimensions: 6.25H x 2W x 0.75 in. D (15.9 x 5.1 x 1.9cm).  
Replacement bulb available separately.

### REQUIRES:

Four AA alkaline batteries (S43921, not included)

Cat. No.	Description	Price
S99187	UV Mini Light Source	55.70/Ea

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part of Thermo Fisher Scientific

## Sirchie™ Fingerprinting Supplies

Great for the classroom — clear and accurate fingerprints for forensics projects.

### Brushes and Duster Long-handle Brush

- Selected, high-quality camel hair for latent powder applications only
- Fine hair eliminates scratching ridge details
- Handle is balanced for easy use
- Supplied with a protective container and cap
- L x dia.: 9 x 0.5 in. (22.9 x 1.3cm)

### Powder Brush, Search™ Regular Powder Brush

- General-purpose, high-quality camel hair brush

### Fiberglass Brush, Kit-Sized

- Specially selected fiberglass filaments are excellent for developing latent fingerprints
- Retains powder and eliminates the constant powder replenishment
- Balanced, machine-knurled, black anodized-aluminum handle in special length to serve as kit replacement
- Supplied in a protective container and cap
- Dia. x L: 0.25 x 2.75 in. (0.6 x 7.0cm)

### Feather Duster, Black Marabou

- Ideally suited for primary and secondary latent print development with any type of powder
- Each brush comes with a transparent tube and cap for storage
- Handle and ferrule L: 4.63 in. (12cm); feather L: 4.5 in. (11cm)

### Inking, Printing and Cleanup Supplies

#### Cleaner Towelettes, Search Super Cleaner

- Individual, napkin-size disposable-ink-cleaning towels for field or classroom
- Special formulation removes fingerprint ink and grime; mildly fragrant, sanitary
- Pack of 100 in hermetically sealed packages

#### Fingerprint Ink, Search

- Free-flowing, densely black ink
- Easily rolled and dries quickly on paper, but remains soft and usable on a slab for days
- Not adversely affected by extreme temperature changes
- Available in 2 oz. (59mL) or 4 oz. (118mL) quantities

#### Fingerprint Ink, Supremink™

- Easy to dispense, roll out and clean up
- Use just a few drops to roll a thin, even layer of ink
- Produces fingerprints with excellent ridge detail
- Won't dry on ink slab surface; dries immediately on contact with fingerprint card
- Available in 2 oz. (59mL) or 4 oz. (118mL) quantities

### Fingerprint Ink Pad, Flawless

- Stain-free
- Provides thousands of single impressions
- Remove by rubbing fingers together or use a dry paper towel
- Dia. x H: 0.38 x 1.63 in. (4.1 x 0.9cm)



### Fingerprint Ink Roller, 4 in. (10cm) Unified Design

- Effective and economical
- One-piece design ensures the integrity of the complete roller assembly
- Design prevents the roller from touching the inking table when not in use
- Rugged, aluminum handle and rubber grip area for operator comfort and control
- Medium-soft, high-density rubber roller element withstands repeated cleaning with solvents

### Fingerprint Record Cards (No Imprint)

- 8 x 8 in. (20.3 x 20.3cm) applicant cards printed in process blue ink on 110 lb. index card stock Do not include imprint
- Powder
- “Hi F” Silk Black Powder
- Latent print powder offers high sensitivity, adherence and reproduction
- Packaged with desiccant capsules to protect against moisture contamination for over 12 months Quantity: 2 oz. (59mL); Net Wt. 0.7 oz. (21g)

### Redescent™ Fluorescent Powder

- Works especially well on dark or multicolored surfaces — greatly enhancing ridge details when illuminated Ultraviolet or blue frequencies (254 to 525nm) excite fluorescence
- Quantity: 2 oz. (59mL); Net Wt. 0.8 oz. (24g)

### Fingerprint Pattern Wall Chart

- Illustrates nine of the most common fingerprint patterns
- Useful reference and teaching aid

Cat. No.	Description	Price
S99526	Latent Print Powder	11.10/Ea
S99528	Kit-Sized Brush	18.50/Ea
S99530	Long-Handled Brush	25.35/Ea
S99524	Cleaner Towelettes	21.65/Ea
S99527	Fluorescent Print Powder	17.95/Ea
S99522	Fingerprint Pattern Wall Chart	28.00/Ea
S99521	Fingerprint Record Card	36.95/Pk
S69000C	Search™ Fingerprint Ink	14.50/Ea
S69000E	Supremink™ Fingerprint Ink	14.50/Ea
S69000A	Ink Pad	12.65/Ea
S69000F	Fingerprint Ink Roller	26.95/Ea
S99529	Feather Duster	20.00/Ea



## Fingerprint Identification

Learn how traditional fingerprinting utilizes the unique arches, loops and whorls of a person's fingers to identify individuals.



- Use dusting powder to obtain fingerprints and match them with unknown fingerprints in a detective activity

### ORDERING INFORMATION:

Components for 10 experiments.

### INCLUDES:

Brush, Ink pad, Magnifying lens, Fingerprint Report Cards™, Black fingerprinting dusting powder, Weigh boats, FBI Fingerprint Data Sheet (example), content background, experiment procedures, safety information and assessment questions and answers

Cat. No.	Description	Price
S97673	Fingerprint Identification Activity Kit	62.50/Ea

## Sirchie™ Silver/Gray Fluormag™ Magnetic Latent Print Powder

Highly fluorescent for use on multicolored backgrounds.

- “No contact” magnetic powder
- Natural silver/gray color appears bright yellow/green when illuminated with an ultraviolet light
- Weight: 2 oz. (56g)



Cat. No.	Description	Price
S99533	Magnetic Latent Print Powder, Silver	16.90/Ea

## Sirchie™ PrintMatic™ Flawless Ink Pad

Revolutionary new concept for recording fingerprints.

- Specially designed microporous membrane features a pore size of 7 to 10 microns for a higher degree of detail in the fingerprint impression
- Produces over 10,000 rolled and plain impressions
- Capillary action provides just the right amount of ink on its surface
- Less pressure is needed when fingers are rolled across the pad, resulting in clearer, less distorted impressions
- Unique multi-mount, injection-molded, copolymer polypropylene case equipped with a positive, snap-lock lid to protect ink surface from airborne contaminants

## Sirchie™ Magnetic Powder Applicator

Ideal for precision dusting of small to medium surface areas.

- Durable, injection-molded applicator features a narrow magnet to fit any size powder container
- Use for processing paper, finished and unfinished wood, nonferrous metals, plastic, glass, vinyl, etc.



Cat. No.	Description	Price
S99534	Magnetic Powder Applicator	29.85/Ea

## Sirchie™ Hinge Lifters

Sized for multiple fingerprints or full palm prints.

By hinging the two together, you can lift, seal and protect fragile latent prints in one easy step.

- Pre-assembled devices combine 5mil clear acetate-coated lifting medium with acrylic adhesive and 10mil backing sheet
- Immediate comparisons may be made with suspect prints or used directly for contact prints or enlargements
- Transparent



Cat. No.	Description	Price
S99536	Hinge Lifter	12.95/Ea



Cat. No.	Description	Price
S99191	Flawless Ink Pad	31.65/Ea

## Activity Kits

## Kemtec™ Crime Scene Kit

Students gather physical evidence to make factual interpretations of the scene.

When suspects and victims enter and/or leave the scene, they bring with them and carry away useful pieces of evidence. Outdoors areas are searched first because changing weather can destroy evidence. Everything must be documented. Court cases have been made by proper documentation and the interpretation of the facts of the processed scene.

- Students work through six exercises using reasoning, common sense, math skills, biology and chemistry to document crime scene
- Grades 5-8
- Class size: 24 students (six groups of four)

### INCLUDES:

Student investigation packets, graph paper, glass slides, cover slips, mounting media, universal indicator solution, sifting screen, soil samples, hair, rope samples, molding clay, trash evidence including nine trace evidence samples, plastic spoons, magnifying glasses, instructor manual, SDS



**REQUIRES:**  
Microscopes.

Cat. No.	Description	Price
S06742	Crime Scene Kit	170.00/Ea

## Kemtec™ Robbery at Anytown Mall Kit

Students solve the case of a robbery of a designer linen suit as a CSI would.

- Scientific methods employed by students for analysis are: observation, experimentation and interpretation
- Both evidence and personal profiles are used to crack case using deductive reasoning
- Grades 7-12
- Class size: 24 students (six groups of four)

Eight lab activities include:

- Fabric Analysis
- Fingerprint
- Fiber Analysis
- Hair Analysis
- Handwriting
- Analysis Blood Typing
- Personal Information
- Questions and Comments

### INCLUDES:

Cloth (simulated silk, cotton, linen, polyester, simulated wool), cat hair, human hair, dog hair, police envelope, suspect envelope, signature cards, hand lens, cover slips, microscope slides, wooden sticks, red litmus paper, tweezers, toothpicks, A and B hema blood tag, Rh hema blood tag, mounting media, anti-A blood simulated, anti-B blood simulated, anti-Rh blood simulated, type B simulated blood, type A simulated blood, type O simulated blood, type AB simulated blood, instructor manual, student manuals, MSDS, student data charts, special needs materials



**REQUIRES:**  
Microscopes, water bath, and test tubes with stoppers

Cat. No.	Description	Price
S06743	Robbery at Anytown Mall kit	204.00/Ea

## AquaPhoenix™ The Case of the Missing Mascot Lab Activity Kit

### Who took the mascot?

- Activity involves investigating the theft of the school mascot
- Clues include a note, some strange-looking leaves, a mouth guard and some white fibers left at the scene
- Students will have to figure out whether it was taken by one of the rival schools before the big game
- Investigations include analyzing DNA results, using dichotomous keys to identify selected plants, analyzing handwriting, fingerprints, and bite marks, and a fiber flame test
- A trial is staged after finding the culprit
- For middle school students
- Class size: 30 students

### INCLUDES:

A teacher's guide, student worksheets and casebooks



Cat. No.	Description	Price
S06628	The Case of The Missing Mascot Lab Activity Kit	266.00/Ea

## Kemtec™ Forensics Kit: Analysis of Minerals and Soils

Student detectives analyze minerals and soils.

Could the suspect have been at the crime scene? To answer this question, students analyze soil, glass, dust, and metal traces using chemical and physical techniques. In addition to providing a fascinating look at one aspect of forensic science, this kit provides students with multiple opportunities to implement the scientific method and better understand the practical uses of science.

- Designed to teach soil analysis using physical and chemical techniques; comparisons of acidity, particle size, density, and mineral analysis by use of wet chemistry
- Grades: 9–12
- Class size: 24 students (six groups of four)

### INCLUDES:

Soil sample A, soil sample B, soil sample C, soil sample D, soil sample "Crime Scene", suspect A (glass beads), suspect B (glass beads), crime scene (glass beads), density gradient tubes, medicine droppers, microscope slides, polarizing film, magnifying glasses, plastic forceps, plastic spoons, aluminum pans, sets of sieves, universal indicator chart, gummed labels, bromoform, bromobenzene, universal indicator, potassium chromate solution, hydrochloric acid solution, instructor manual, student data sheets, special needs materials, methods of assessment, manual, MSDS



### REQUIRES:

Fume hood, UV light, balance, microscope and hot plate.

Cat. No.	Description	Price
S25706	Analysis of Minerals and Soils Kit	322.00/Ea



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## Kemtec™ Forensic Impressions Kit

Let students become CSI detectives to identify, preserve and evaluate trace evidences at a crime scene.



- Based on the logic of the exchange principle by Edmund Locard which says, “it is simply impossible to enter a location without changing it in some way, either by bringing something to it or by taking something from it”.
- Students learn to cast six types of impressions using carbon powder, plaster, clay and ink
- Students understand that footprints or shoe prints, tire tracks, or other impressions imbedded in soft material serve as valuable class evidence for the crime scene investigator
- Includes six different labs, allowing students to identify and evaluate trace evidence and solve the scenario
- Grades 8–12
- Class size: 24 students

### INCLUDES:

Vials of carbon powder, small paint brushes, plain paper stock, modeling clay, plaster of Paris, teaspoons, five different ropes, magnifying glass, tongue depressors, tire pictures, small ink roller, ink, paper cups, soil, sifting screen, toothbrushes, pans, Petri dishes, instructor’s manual, students manual, assessment manual, MSDS

### REQUIRES:

An old tire, an old gym shoe, mixing containers, a spray bottle and newspaper

Cat. No.	Description	Price
S06741	Forensic Impressions Kit	298.00/Ea



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## Edvotek™ Whose Fingerprints Were Left Behind? Experiment Kit

Find fingerprints invisible to the naked eye.

Students solve a crime by dusting for fingerprints and use fluorescent dust to search for and identify trace amounts of blood.

- Demonstrates the proper dusting and lifting techniques to collect latent fingerprints at a crime scene
- Learn how to identify microscopic amounts of blood with a fluorescent light
- Class size: 10 groups
- Run time: 50 minutes



### INCLUDES:

Instructions and background information, brushes, magnifying lens, FBI fingerprint type cards, white backing cards, black dusting powder, fluorescent green and gray dye dusting powder, fingerprint lifters

### REQUIRES:

Alcohol, UV longwave light source, safety goggles, scissors, towel/washcloth

Cat. No.	Description	Price
S94590	Fingerprinting Experiment Kit	90.00/Ea

## Kemtec™ Analysis of Fingerprints Kit

Encourages students to learn and experiment with dusting and developing latent prints.

- Define latent fingerprints found on various surfaces
- Compare prints using standards developed by the FBI to identify a would-be suspect
- Prepare evidence for analysis and identification of fingerprints
- Develop prints on paper using ninhydrin and Lugol’s iodine method
- Visualize fingerprint on metal spoon with cyanoacrylate fuming method
- Grades 7-14
- Class size: 24 students (six groups of four)



### INCLUDES:

Brushes, metal spoons, slides, cellophane tape, magnifying glasses, jars with caps, aluminum foil, ink pads, tweezers, set of FBI fingerprint classifications, gloves, filter paper, index cards, super glue, chemicals, 22 student data sheets, instructions

### REQUIRES:

 Fume hood

Cat. No.	Description	Price
S25716	Analysis of Fingerprints Kit	167.00/Ea

## Kemtec™ Forensics Kit: Fabrics and Fiber

Examine various types of fabric and fiber evidence and observe the various characteristics that are exhibited.



### Forensic scientists examine the following:

- A mineral type (glass wool)
- Animal type (wool)
- Vegetable type (cotton)
- Synthetic types (rayon, nylon and acetate)
- Observe and test a carpet sample to see the uniqueness of its general overall characteristics and structures

Includes five units:

Experiment No. 1: Animal, Vegetable, Mineral or Fake (The Effect of Heat and Chemical Reaction)

Experiment No. 2: General Microscopic Observation

Experiment No. 3: The Fiber's Reaction to Chemicals (Solubility Test)

Experiment No. 4: What Was the Fiber Used For (Stretch and Strain)

Experiment No. 5: Unknown Fibers and Fabrics

### INCLUDES:

Fabric and fiber samples (white cotton, white wool, white carpet fiber, spun glass strands, nylon, rayon, acetate, unknown 1, unknown 2, unknown carpet fiber), wax pencils, metal forceps, plastic forceps, slides, cover slips, wooden toothpicks, 0.5 oz. empty dropping bottles, red litmus paper, lead acetate paper, 3M HCl, 3M NaOH, chlorine bleach, dry-cleaning solvent, acetone, mounting solution, instructor's manual, student manual, MSDS, methods of assessment manual

### REQUIRES:

Microscopes, alcohol or Bunsen burners.

Cat. No.	Description	Price
S06739	Fabrics and Fiber kit	192.00/Ea

## Forensic Analysis of Fabric and Fibers Educational Kit

Designed to introduce students to the concepts of fabric and fiber analysis. This kit covers the areas of cloth weave identification, microscopic fiber analysis, burn testing and chemical analysis.



- Students will be given a crime scene sample and need to test materials taken from four suspects to try and identify who might be involved
- Contains enough materials for 10 groups
- Teachers manual and Student Study guide copymasters are included

### INCLUDES:

4 x 25mL Acetone; 4 x 25mL Sodium Hypochlorite (Bleach); 4 x 25mL Hydrochloric Acid; 4 x 25mL Sodium Hydroxide; 1 x 25mL Mounting Medium; 1 Pack pH Strips; 1 Pack Microscope Slides; 2 Packs Microscope Cover Slips; 1 Pack Lead Acetate Paper; 10 Metal Forceps; 1 Piece Cotton Fabric Sample; 1 Piece Wool Fabric Sample; 1 Piece Acetate Fabric Sample; 1 Piece Polypropylene Fabric Sample; 1 Piece Polyester Fabric Sample; 1 Piece Crime Scene Sample; 1 Piece Suspect #1 Sample; 1 Piece Suspect #2 Sample; 1 Piece Suspect #3 Sample; 1 Piece Suspect #4 Sample

Cat. No.	Description	Price
S28503*	Forensic Analysis of Fabric and Fibers Educational Kit	125.00/Ea



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## Kemtec™ Forensic Blood Spatter Kit

Examines how blood spatter plays a role in crime scene investigation.

Students determine how the height and angle of a blood drop impact the size and shape of a blood spatter, then use this information along with the sixteen general rules of spatter interpretation to analyze data.

- Experiments introduce techniques used by forensic specialists
- Test and understand basic principles and terminology
- Grades: 9–12
- Class size: 24 students

Lessons include:

- Distance effect on blood spatter
- Identifying distance and angle of travel with blood spatter
- Investigating blood spatter with luminol
- Assembling a blood spatter chamber and experimenting with spatter (includes the 16 general rules of blood spatter interpretation and 37 investigative terminology terms)
- Creating a crime scene scenario

### INCLUDES:

Instructor's manual, assessment manual, MSDS, student data sheets, Sixteen General Rules of Blood Spatter, Thirty Seven Investigative Terminology Terms, blood spatter test, large paper clip, pipets, magnifying glasses, protractors, measuring tape, filter paper, rubber bands, clipboards, cardboard, spray bottles, labels, blood spatter chamber, dowel rods, hammer, striking platform, paper for spatter, simulated blood solution, simulated hemoglobin solution, luminol powder, sodium perborate, sodium carbonate

### REQUIRES:

Newspaper, cleanup towels, water, black light, masking tape, UV light

Cat. No.	Description	Price
S68542	Blood Spatter Kit	302.00/Ea



## Blood Spatter Heads

Great tools for crime scene re-enactment, courtroom demonstrations and BPA training. Interlocking head can be struck to produce realistic MVIS (medium-velocity impact spatter).

- High-strength, solid cast of a human head at three-quarter size
- Top quarter of the model is a custom wax-blend filled with pig's blood
- Blood has been tested to be infection-free
- Some components require immediate refrigeration
- Four refills (additional refills available separately)



Cat. No.	Description	Price
S94832A	Vertical Blood Spatter Head	642.00/Ea

## Hemastix™ Reagent Strips

Quick-and-easy test can be used right at the crime scene

Determine if what is being photographed at the scene is actually blood spatter.

- Detect the peroxide-like activity of hemoglobin in a substance
- Bottle of 50 strips



Cat. No.	Description	Price
S69043	Hemastix Reagent Strips	86.00/Ea

## Forensic Chemistry of Blood Types Kit

Classify blood based on the presence or absence of erythrocytes on the surface of red blood cells.



Blood type, an inherited characteristic, is valuable to know in that it affects medical procedures, such as surgery and transfusions, paternity testing, as well as serving as evidence in criminal investigations.

- Uses Innovating Science Simulated Blood; safe for classroom use
- Contains materials for 15 lab groups

### INCLUDES:

Teacher's manual, student guide, analysis copy-masters, blood typing trays, four simulated blood samples (victim, suspect #1, suspect #2 and crime scene), ABO/Rh blood typing anti-sera, mixing sticks. Enough materials for 15 tests.

Cat. No.	Description	Price
S96644	Chemistry of Blood Types Kit	48.00/Ea



## Fisher Science Education™ Forensics Using Simulated Blood Kit

Enjoy hands-on activities and learn the use of blood type in a forensic investigation.



Students first use a presumptive blood test to determine if a substance on a stained piece of cloth may be blood, and then determine the blood type of the sample collected at the scene. Students compare their results to those of samples provided from two suspects.

- Students act as lab technicians and assist investigators by examining evidence collected at a crime scene
- Kit provides the most accurate simulation of the actual blood typing procedure
- No toothpicks, stirring or waiting for results
- Contains materials for 10 groups
- Uses simulated blood. These activities do not work with real blood.

### INCLUDES:

- 40 blood typing trays
- 10 cotton swabs
- One cloth piece
- One bottle 70 ethanol
- One bottle blood detection reagent No. 1
- One bottle blood detection reagent No. 2
- Four simulated blood samples (victim, suspect No. 1, suspect No. 2 and crime scene evidence)
- One bottle simulated anti-A serum
- One bottle simulated anti-B serum
- One bottle simulated anti-Rh serum
- Teacher's manual and student study guide copymasters

Cat. No.	Description	Price
S96794***	Forensics Using Simulated Blood Kit	58.00/Ea



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## Edvotek™ Forensics Enhancement Techniques

Employ methods to view blood that cannot normally be seen.

Trace amounts of blood can be more than enough to identify the individual responsible for a crime or a variety of illegal activities. Enhancement procedures can make a small stain of body fluid or tissue visible to the naked eye.



Students will be the detectives during a drug bust involving gang warfare over a disputed territory.

Students will:

- Employ routinely used reagents as a first screen to detect simulated blood and DNA
- Recover biological materials from spatters and small droplets of simulated human materials
- Contains supplies for 10 student groups

Cat. No.	Description	Price
S99519	Forensics Enhancement Techniques Kit	126.00/Ea

## Forensic Chemistry of Hair Analysis Kit

See how scientists use hair to solve a crime.



Determine the origin of hair samples from a crime scene and compare to hair samples from four known suspects.

- Students will discover the differences between human and animal hair as well as those among different types of human hair
- Contains enough materials for 15 tests

### INCLUDES:

Teacher's manual and student guide, analysis copy-masters, microscope slides, cover slips, deer hair sample, cat hair sample, four human hair samples, 15 forceps, 15 wax pencils

**REQUIRES:** Light microscopes

Cat. No.	Description	Price
S96643*	Hair Analysis Kit	58.50/Ea

## Kemtec™ Forensics Kit: Introduction to Toxicology

Demonstrate techniques used to screen for drug use.

- Emphasizes scientific method principles by careful observation and data collection
- Includes several forensic scenarios for realistic sleuthing
- Makes a great applied biology or chemistry lab
- Provides an opportunity to go beyond the science and discuss the social issues of drug abuse
- Grades 10–12
- Class size: 24 students (six groups of four)

### INCLUDES:

Note on phenylpropanolamine; Rf value cards; tox elution columns; plastic bottles with dropper caps; silica plates; capillary tubes; pipet; acetone; methanol; simulated urine; eluent; ethyl acetate; ammonium hydroxide; potassium iodide solution; acidified methanol; chloroplastic solution; ninhydrin; diphenyl carbozone; mercuric oxide; Contact™; Sudafed™; Ceffedrine™; Dexamtrim™; quinine; sulfuric acid solution, instructor, student and methods of assessment manuals; MSDS



### REQUIRES:

Goggles, fume hood, both short and long wave UV light, water bath, hair dryer/heat source and ring stands

Cat. No.	Description	Price
S25717	Introduction to Toxicology	308.00/Ea

## Forensic Drug and Poison Analysis: Chemistry and Toxicology Educational Kit

To learn the difference between forensic chemistry and forensic toxicology. Innovating Science Forensic Drug and Poison Analysis: Chemistry and Toxicology Educational Kit helps students to perform presumptive chemical tests on drugs and poisons, identify unknown samples based on chemical test results and examine urine for evidence of heavy metal poisoning using chromatography.

- Experiments to understand how over-the-counter drugs, controlled drugs, and illegal drugs may act as toxins
- Contains enough material for 15 groups
- Teacher's Manual and Student Study Guide copymasters are included

### INCLUDES:

10g Aspirin; 10g Acetaminophen; 10g Sodium Bicarbonate Antacid; 10g Effervescent Antacid; 10g Unknown #1; 10g Unknown #2; 30mL Universal Indicator Solution; 30mL 0.5M Hydrochloric Acid; 30mL Ferric Nitrate; 1g Simulated Marijuana; 10g Simulated LSD; 10g Simulated Cocaine; 30mL Simulated Scott Reagent; 30mL Simulated Van Urk Reagent; 30mL Simulated Lead Solution; 30mL Simulated Mercury Solution; 30mL Unknown Poison; 30mL Simulated Potassium Chromate; 30mL Simulated Urine Sample; 30mL Alanine Control; 30mL Glycine Control Spray Bottle w/0.5g Ninhydrin Powder; 4 x 25mL 95% Ethanol; 15 x 25ml Chromatography Solvent; 15 Universal Indicator Color Charts; 6 Capillary Tubes; 15pc Chromatography Sheets; 30 Spot Plates; 8 Scoops; 1pkg Toothpicks



Cat. No.	Description	Price
S28501***	Forensic Drug and Poison Analysis: Chemistry and Toxicology Educational Kit	183.00/Ea



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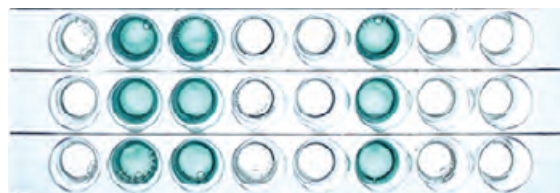
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## Edvotek™ Forensic Toxicology Experiment Kit



Student's educational kit to analyze crime scene samples for presence of drugs.

- Identify drugs, toxins in samples collected from crime scenes, victims, potential suspects
- Uses Enzyme Linked Immunosorbent Assay (ELISA) to analyze simulated crime scene samples for the presence of drugs



Cat. No.	Description	Price
S42879	Forensic Toxicology Experiment Kit	104.00/Ea

## Edvotek™ Forensics Antigen Detection Kit

Can a deceased cat assist a murder investigation?

A young woman who lives with her cat was last seen on her daily run. After two days she was reported missing to the police by her friends. Upon entering her penthouse, police found the woman's cat in a pool of blood, shot in the head. Tiny drops of blood were found trailing from her bed sheets to the area near the cat. The detective in charge concluded that the woman and the cat were brutally murdered, the woman's body was removed from the site of the crime and the tiny stains of blood were overlooked when the area was cleaned.



### Students will:

- Analyze samples that were obtained from the “blood” around the dead cat
- Determine if the blood stains on the bed sheets are human or feline
- Determine the validity of the hypothesis set forth by the detective
- No actual blood or blood products used in this experiment
- Contains enough supplies for 10 student groups

Cat. No.	Description	Price
S99517	Forensics Antigen Detection Kit	142.00/Ea

## Edvotek™ Forensic Enzymology Kit

Can enzymes be used as evidence?

In a head-on accident, both drivers claimed that the other driver fell asleep at the wheel and caused a fatal accident which was later ruled a homicide. The attending physician at the local hospital did a thorough examination of the two drivers, took blood and urine samples and measured the drivers' temperatures using a disposable plastic mouthpiece and a tongue depressor, which he saved.



Fortunately, the physician had read that the level of saliva amylase increases in humans who are sleep deprived. In this exercise, students will:

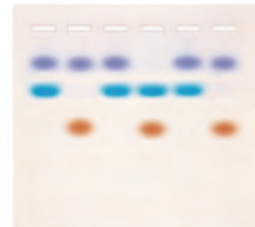
- Analyze the level of saliva amylase found on the tongue depressors of the two drivers
- Use the results to determine who fell asleep at the wheel, causing the accident
- This experiment does not contain components that have been prepared from human sources.
- Contains enough supplies for 10 student groups

Cat. No.	Description	Price
S99518	Forensics Enzymology Kit	129.00/Ea

## Edvotek™ Whose DNA Was Left Behind? Experiment Kit

Students simulate DNA fingerprinting and use evidence to narrow down a list of criminal suspects.

Introduces the basics of DNA fingerprinting and agarose gel electrophoresis.



- Introductory-level exercise with hands-on experimentation
- Illustrates how DNA sequences can be isolated in trace evidence such as blood cells or hair
- Dye simulations function as DNA samples for analysis
- Class size: 10 groups

### ORDERING INFORMATION:

Results must be analyzed upon completion and cannot be stored overnight.

### INCLUDES:

Booklet with study questions/answers and instructor's guide, two samples from crime scene, two samples from each of two suspects, transfer pipets, UltraSpec-Agarose™ powder, 50x electrophoresis buffer, practice gel loading solution

### REQUIRES:

Electrophoresis apparatus, DC power source, microwave, hotplate or burner, beakers (250mL), beaker tongs or hot gloves, distilled water, balance

Cat. No.	Description	Price
S94591	Whose DNA Was Left Behind? Kit	78.00/Ea

## LAB-AIDS™ Forensic Science: Introduction to DNA Fingerprinting Kit

Provides students with a feel for what it takes to be a detective.

- Worksheets provide a step-by-step identification of two crime suspects
- Learn crime scene and evidence observation
- Construct a chromosome with color-coded genes from the suspects
- Explore DNA mapping and fingerprinting
- Class size: 30 students



### INCLUDES:

Teacher's manual; 15 student trays with stands and color-code keys; eight packages of color-coded genes (15 per color); 15 sets of three different “bank photo” crime scene illustrations; 30 sets of pressure-sensitive stickers of cell structure and chromosomes; 15 sets of three different x-ray films of DNA fingerprints; five pads of student worksheets (30/pad)

Cat. No.	Description	Price
S19450	Dna Fingerprinting Forensic Kit	240.00/Ea



## Teacher Resources



## NewPath Learning™ Science Learning Centers

### Engaging and Ready to Use Resources

Designed for either teacher-directed instruction or independent use by groups of two to four students, each Learning Center focuses on a key curriculum concept and includes four Visual Learning Guides focused on the same topic. Guides are four pages, laminated for long-term use, and feature an easy-to-follow, graphic overview of the topic, "Write-On/Wipe-Off" activities and graphic organizers, and a set of assessment review questions. Also included is a Curriculum Mastery Game featuring a set of 30 illustrated, self-correcting question cards, a laminated game board, and materials for up to four players. Packaged in a durable, zippered, vinyl pouch, the Learning Center is a ready-to-use resource for the classroom, after school programs, or at home to practice, review, and prepare for exams.

#### LIFE SCIENCES LEARNING CENTERS

S24142	Animals	25.00
S24136	Birds & Mammals	23.25
S24137	Cells	25.50
S24151	Compound Microscopes	23.25
S24138	Diversity of Life	23.25
S24139	Ecosystems & Food Chains	25.50
S24140	Fishes, Amphibians & Reptiles	25.00
S24141	Genetics	25.50
S24144	Microlife	25.50
S24145	Mitosis & Meiosis	25.50
S24146	Modern Genetics	25.50
S24147	Mollusks, Arthropods, & Echinoderms	23.25
S24148	Osmosis & Diffusion	25.50
S24149	Photosynthesis, & Respiration	25.50
S24143	Plants	25.50
S24150	Sponges, Cnidarians, & Worms	23.25

#### HUMAN BODY LEARNING CENTERS

S24152	Bones, Muscles, & Skin	25.50
S24154	Circulatory System	23.25
S24155	Digestive System	23.25
S24156	Endocrine System	23.25
S24157	Excretory System	23.25
S24158	Immune System	23.25
S24159	Nervous System	23.25
S24153	Nutrition	23.25
S24160	Reproductive System	23.25
S24161	Respiratory System	23.25

#### EARTH SCIENCES LEARNING CENTERS

S24162	Earth's Atmosphere	25.50
S24163	Earthquakes	23.25
S24164	Fossils	25.00
S24165	Geologic Time Scale	25.50
S24166	Minerals	23.25
S24168	Plate Tectonics	23.25
S24169	Rocks	23.25
S24167	Solar System	23.25
S24170	Sun, Earth, & Moon	23.25
S24172	Volcanoes	23.25
S24171	Weather	23.25

#### PHYSICAL SCIENCES LEARNING CENTERS

S24173	Acids, Bases, & Salts	15.75
S24181	Atoms	15.75
S24174	Chemical Reactions	21.25
S24175	Electricity	25.00
S24176	Electromagnetism	23.25
S24177	Elements & Periodic Table	25.50
S24178	Forces & Motion	25.50
S24179	Light	25.50
S24180	Magnetism	25.00
S24182	Solids, Liquids, & Gases	21.00
S24183	Sound	25.00
S24184	Work & Machines	25.50

## NewPath Learning™ Flip Chart Sets

Graphically Introduce & Review Key Curriculum Topics!

Engaging and easy to use, each set features 10 double-sided spiral-bound charts on a durable, free-standing easel. Side one of each 12 x 18 in. chart features a graphic overview of the topic while side two provides “write-on/wipe-off” activities for review and reinforcement. Also includes Activity Guide with copy masters and review questions.



Features “Write-on/Wipe-off” Activities

### LIFE SCIENCES FLIP CHART SETS

<b>S93946</b>	Life Sciences	50.75
<b>S04875</b>	All About Cells	48.75
<b>S05003</b>	Mitosis	48.75
<b>S05004</b>	Osmosis & Diffusion	48.75
<b>S05005</b>	Protists: Pond Microlife	40.25
<b>S04880</b>	Meiosis	48.75
<b>S05006</b>	Photosynthesis & Respiration	48.75
<b>S04876</b>	Chromosomes, Genes & DNA	48.75
<b>S04878</b>	Genetics: The Study of Heredity	48.75
<b>S04879</b>	Six Kingdoms	48.75
<b>S04877</b>	Food Chains & Food Webs Set	48.75
<b>S01891</b>	Owls & Owl Pellets	34.25
<b>S93945</b>	Human Body	50.75
<b>S04895</b>	Human Body I: Moving & Controlling the Body	48.75
<b>S04897</b>	Human Body III: Maintaining Life	48.75

### EARTH SCIENCES FLIP CHART SETS

<b>S93947</b>	Earth Science	50.75
<b>S04869</b>	All About Minerals	48.75
<b>S04870</b>	All About Rocks	48.75
<b>S04873</b>	Plate Tectonics	48.75
<b>S04865</b>	Earthquakes	48.75
<b>S04874</b>	Volcanoes	40.75
<b>S04868</b>	Earth's Surface	48.75
<b>S04866</b>	Earth's Atmosphere & Weather	48.75
<b>S04867</b>	Earth's Climate	40.75
<b>S04872</b>	Our Solar System	48.75
<b>S04871</b>	Sun-Earth-Moon	48.75

### PHYSICAL SCIENCES FLIP CHART SETS

<b>S93948</b>	Physical Science	50.75
<b>S04892</b>	Properties & States of Matter	48.75
<b>S04885</b>	Atoms & Chemical Bonding	48.75
<b>S04888</b>	Elements & the Periodic Table	48.75
<b>S04886</b>	Chemical Reactions	48.75
<b>S01892</b>	Lab Safety	40.00
<b>S04889</b>	Energy: Forms & Changes	40.25
<b>S04890</b>	Forces & Motion	48.75
<b>S04894</b>	Work, Power & Simple Machines	40.00
<b>S04893</b>	All About Sound	25.25
<b>S04891</b>	Light & Optics	40.25
<b>S04887</b>	Electricity & Magnetism	40.00



## NewPath Curriculum Mastery Games

Combine Game-Based Learning with Online Resources for Engaging Review and Reinforcement!

Use game-based learning to build student skills on key, standards-based topics. Each Curriculum Mastery Game includes enough materials to cover an entire year's studies for a class of up to 36 students. Includes 750 illustrated, self-checking review questions (30 game cards for each of the 25 topics covered) 12 double-sided, laminated game boards; game pieces; and Teacher's Guide. Also includes a one-year premium subscription to NewPath's Online Learning Program providing access to animated tutorials, virtual labs, interactive exercises, assessments, and more!

Cat. No.	Curriculum Mastery Games	Price
<b>S95684</b>	Life Sciences	127.00
<b>S93994</b>	Biology	101.00
<b>S01908</b>	Human Body	127.00
<b>S93995</b>	Earth Science	121.00
<b>S95686</b>	Physical Science	127.00
<b>S93996</b>	Physics	121.00
<b>S93997</b>	Chemistry	122.00

# LIFE SCIENCES

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SWIFT

## A Global Leader for Over 50 Years

Trust Swift™ microscopes to meet your needs in any classroom or teaching environment.

**S19617A** \$272.00

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# BEFORE YOU BUY

## Read About Living Organisms



### Living Material – Before You Buy

The Fisher Science Education team is proud to offer Carolina<sup>™</sup> Biological Supply Company's living specimens. This partnership provides you with:

- Extensive variety
- Expert support
- Superior quality

### Ordering Information

To order live specimens, please call customer service at **1-800-955-1177**.

When you place your order, be prepared to provide a specified delivery date and contact information for the faculty member using the product.

Living organisms are shipped Monday through Wednesday using two-day shipping.

Shipping on other days of the week is available upon request and requires premium shipping methods (some of which are not available to all locations).

Your living materials are guaranteed to arrive on time and in a healthy condition or we will replace them with 100% satisfaction guaranteed.



### Restrictions

- **State Shipping Restrictions:** Some living specimens are restricted in certain states. Please see the individual product listing for this information. Some items have substitution recommendations and/or replacement items that can be provided. This will be determined upon receipt of an order.
- **Seasonal Restrictions:** Some living specimens are seasonal and are only available at certain times during the year. Please see the individual product listings for seasonal availability.
- **Hawaii Restriction Notice:** Shipment of living materials (bacteria, algae, plants, protozoa, insects, and other animals) into Hawaii is restricted.

### Prepaid Coupons

You can order living organisms in advance using a prepaid coupon option that allows you to arrange delivery when you are ready.

Pay one flat price that includes the cost of the organism and the shipping fees.



Coupons will not expire and can be redeemed at anytime.

Redeem coupons by phone, fax, online, or mail.

To ensure prompt arrival of materials, redeem coupons at least two weeks prior to your requested delivery date.

### Releasing Organisms

Living organisms are offered for educational purposes only. We do not advocate the release of any organism into the environment. In some states, it is illegal to release organisms, even indigenous species, without a permit.

## Living Organisms

## Bacteria

## LIVING ORGANISMS

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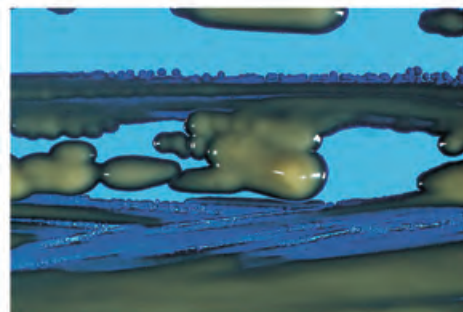
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## Carolina™ Individual Bacterial Cultures

Bacteria cultures have wide applications in the food and chemical industries because of their highly diverse metabolic activities.

Bacteria are involved in many of the events that make life possible for other organisms, including humans. Fossils of prokaryotes similar to today's bacteria have been found in 3.5 billion-year-old rocks. A mastery of bacteria is the key to understanding life on earth in the past, present, and future.

- Labeled by genus and species name and media on which they are cultured
- All Gram staining based on 24 hr. cultures
- Pure and high-quality
- For every level of study



- Easy-to-use media
- Storage: 20° to 22°C

## INCLUDES:

Materials for a class of 30 students

- Carolina™ *Techniques for Studying Bacteria and Fungi* manual

## ⚠ ALERTS:

**Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000**

Cat. No.	Organism	Media Type	Temperature (Metric) Range	Packaging	Price
S07180ND	Enterobacter aerogenes Culture	Nutrient Agar	30°C	Tube	14.75/Ea
S07189ND	E.coli Culture	Nutrient Agar	37°C	Tube	14.75/Ea
S07190ND	E.coli B Culture	Nutrient Agar	37°C	Tube	14.75/Ea
S07191ND	Lactobacillus acidophilus Culture	Tomato Juice, Yeast Extract, Milk Broth	37°C	Tube	14.75/Ea
S07192ND	Micrococcus luteus Culture	Brain Heart Infusion Agar/ Broth	25°C	Tube	14.75/Ea
S07204ND	Lactococcus lactus Culture	Tomato Juice, Yeast Extract, Milk Broth or Brain Heart Infusion Agar	37°C	Tube	14.75/Ea
S07210ND	Micrococcus roseus Culture	Nutrient Agar	25°C	Tube	14.75/Ea
S07403ND	E.coli MicroKwik Culture™	Nutrient Agar	37°C	Vial	23.25/Ea
S07404ND	Lactococcus lactus MicroKwik Culture™	Tomato Juice, Yeast Extract, Milk Broth or Brain Heart Infusion Agar	37°C	Vial	23.25/Ea
S07407ND	Enterobacter aerogenes MicroKwik Culture™	Nutrient Agar	30°C	Vial	23.25/Ea
S07417ND	E.coli Culture	Nutrient Agar	37°C	Tube	14.75/Ea
S07418ND	E.coli Culture	Nutrient Agar	37°C	Plate	17.75/Ea
S07427ND	Micrococcus luteus MicroKwik Culture™	Brain Heart Infusion Agar/ Broth	25°C	Vial	23.25/Ea
S07183ND	Bacillus megaterium	Nutrient Agar	30°C	Tube	14.75/Ea
S07184ND	Bacillus subtilis	Nutrient Agar	30°C	Tube	14.75/Ea
S07185ND	Bacillus stearothermophilus	Tryptic Soy Agar	55°C	Tube	14.75/Ea
S07187ND	Clostridium sporogenes	Thioglycollate Medium	37°C	Tube	14.75/Ea
S07188ND	Corynebacterium pseudodiphtheriticum	Brain Heart Infusion Agar	37°C	Tube	16.00/Ea
S07402ND	Bacillus megaterium	Nutrient Agar	30°C	Vial	23.25/Ea
S07406ND	Clostridium sporogenes	Thioglycollate Medium	37°C	Vial	23.25/Ea
S07416ND	Citrobacter freundii	Nutrient Agar	37°C	Tube	14.75/Ea
S07424ND	Bacillus subtilis	Nutrient Agar	30°C	Vial	23.25/Ea

Contd. on the next page.

## Carolina Individual Bacteria Cultures, Cont.

Cat. No.	Organism	Media Type	Temperature (Metric) Range	Packaging	Price
S07425ND	Bacillus cereus	Nutrient Agar	30°C	Vial	23.25/Ea
S07197ND	Pseudomonas fluorescens	Nutrient Agar	25°C	Tube	14.75/Ea
S07198ND	Sarcina aurantiaca	Nutrient Agar	25°C	Tube	14.75/Ea
S07200ND	Sarcina lutea	Nutrient Agar	25°C	Tube	14.75/Ea
S07201ND	Serratia marcescens	Nutrient Agar	25°C	Tube	14.75/Ea
S07202ND	Serratia marcescens D1	Nutrient Agar	25°C	Tube	14.75/Ea
S07211ND	Vibrio fischeri	Photobacterium Agar	25°C	Tube	14.75/Ea
S07212ND	Rhodospirillum rubrum	Nutrient Agar	25°C	Tube	14.75/Ea
S07405ND	Staphylococcus epidermidis	Nutrient Agar	37°C	Vial	23.25/Ea
S07410ND	Pseudomonas fluorescens	Nutrient Agar	25°C	Vial	23.25/Ea
S07412ND	Streptococcus salivarius	Tryptic Soy Agar with 5% Sheep Blood or Dextrose Starch Agar	37°C	Vial	23.25/Ea
S07426ND	Serratia marcescens	Nutrient Agar	25°C	Vial	23.25/Ea
S07428ND	Spirillum volutans	Peptone Succinate	30°C	Tube	14.75/Ea
S07429ND	Staphylococcus epidermidis	Nutrient Agar	37°C	Tube	14.75/Ea
S21882ND	Aquaspirillum itersonii	Nutrient Agar	25°-30°C	Tube	14.75/Ea
S21884ND	Bacillus brevis (B. parabrevis)	Nutrient Agar	30°C	Tube	14.75/Ea
S21887ND	Bacillus cereus	Nutrient Agar	30°C	Tube	14.75/Ea
S21888ND	Bacillus coagulans	Tryptic Soy	37°C	Tube	14.75/Ea
S21889ND	Bacillus sphaericus, 1 Plate	Nutrient Agar,	30°C	Plate	17.75/Ea
S21890ND	Bacillus subtilis	Nutrient Agar	30°C	Plate	17.75/Ea
S21891ND	Bacillus thuringiensis	Nutrient Agar	30°C	Tube	14.75/Ea
S21817ND	Branhamella catarrhalis, MicroKwik Culture	Tryptic Soy	37°C	Vial	25.50/Ea
S21818ND	Chromobacterium violaceum, MicroKwik Culture, PATHOGEN	Nutrient Agar	30°C	Vial	23.00/Ea
S21893ND	Clostridium butyricum (C. Beijerinckii)	Reinforced Clostridial	37°C	Tube	14.75/Ea
S21894ND	Corynebacterium xerosis	Brain Heart Infusion Agar	37°C	Tube	14.75/Ea
S21896ND	Enterobacter aerogenes	Nutrient Broth	30°C	Tube	14.75/Ea
S21897ND	Enterobacter cloacae	Nutrient Broth	30°C	Tube	14.75/Ea
S21898ND	Flavobacterium capsulatum	Skim Milk	25°C	Tube	14.75/Ea
S21820ND	Lactobacillus acidophilus, MicroKwik Culture	Tomato Juice/Yeast Extract/Milk Broth	37°C	Vial	23.00/Ea
S21899ND	Micrococcus luteus	Nutrient Agar	25°C	Plate	17.75/Ea
S21822ND	Neisseria subflava, MicroKwik Culture	Brain Heart Infusion Agar	37°C	Vial	23.00/Ea
S21823ND	Salmonella enteritidis, MicroKwik Culture, PATHOGEN	Nutrient Agar	37°C	Vial	23.00/Ea
S21824ND	Staphylococcus simulans (coagulase negative), MicroKwik Culture, PATHOGEN	Brain Heart Infusion Agar	37°C	Vial	23.00/Ea
S21825ND	Streptococcus agalactiae, MicroKwik Culture, PATHOGEN	Tryptic Soy with 5% Sheep Blood	37°C	Vial	23.00/Ea

## Carolina™ Advanced High School Bacteria Collection Set

There are typically 40 million bacterial cells in a gram of soil and a million bacterial cells in a milliliter of fresh water.

- Twelve tube cultures
- Kit represents different chemical and morphological groups

### INCLUDES:

- *Bacillus megaterium*
- *Branhamella catarrhalis*
- *Clostridium sporogenes*
- *Lactobacillus acidophilus*
- *Micrococcus luteus*
- *Pseudomonas fluorescens*
- *Rhodospirillum rubrum*
- *Serratia marcescens*
- *Spirillum volutans*
- *Sporosarcina ureae*
- *Streptomyces griseus*
- *Vibrio fischeri*



Cat. No.	Description	Price
S07415ND	Advanced High School Bacteria Collection Set	163.00/Pk

### ⚠️ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000



## Carolina™ Gram Stain Comparison Set

A selection of five bacterial tube cultures representing Gram-negative and Gram-positive bacteria. This characteristic of bacteria is determined by the make-up of the cell wall, tested by using the Gram-stain method, which is used as the first step in identifying a bacterium.

### INCLUDES:

- *Bacillus cereus* (Gram-positive rod)
- *Branhamella catarrhalis* (Gram-negative coccus)
- *Micrococcus luteus* (Gram-positive coccus)
- *Rhodospirillum rubrum* (Gram-negative spiral)
- *Serratia marcescens* (Gram-negative rod)



Cat. No.	Description	Price
S07420ND	Gram Stain Comparison Set	68.75/Pk

## Carolina™ High School Bacteria Collection Set

Bacteria inhabit soil, water, acidic hot springs, radioactive waste and the deep portions of Earth's crust.

Seven tube cultures representing different chemical and morphological groups.

- Cultures grow on nutrient agar except where noted

### INCLUDES:

- *Bacillus megaterium*
- *Branhamella catarrhalis* (brain heart infusion agar)
- *Micrococcus luteus*
- *Pseudomonas fluorescens*
- *Rhodospirillum rubrum*
- *Serratia marcescens*
- *Sporosarcina ureae*



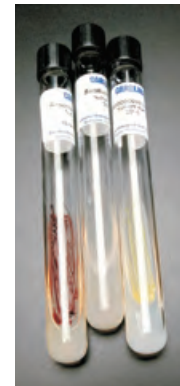
Cat. No.	Description	Price
S07421ND	High School Bacteria Collection Set	92.00/Pk

## Carolina™ Introductory Bacteria Sets

Three bacteria tube cultures representing the common bacterial shapes of rods, spheres and spirals.

### INCLUDES:

- *Bacillus subtilis* (rods)
- *Micrococcus luteus* (spheres)
- *Rhodospirillum rubrum* (spirals)



Cat. No.	Description	Price
S07422ND	Introductory Bacteria Set	43.50/Pk

## Carolina™ Bioluminescent Bacterium Kit

Light up your students' understanding of bioluminescent organisms.

Students transfer *Vibrio fischeri* onto *photobacterium* agar, incubate the cultures in the dark at room temperature and observe bioluminescence the next day.

- Easy to perform
- Requires no experience in microbiology

**Note:** Store at room temperature; do not refrigerate or incubate. Use bacteria within one to two days of receipt for best results. Keep bacteria culture in envelope until use.

### INCLUDES:

- *V. fischeri* tube culture
- 10 tubes of *photobacterium* agar
- Metal inoculating loop
- Instructions



Cat. No.	Description	Price
S07430ND	Bioluminescent Bacterium Kit	32.00/Ea

## Carolina™ Bergey's Manual of Determinative Bacteriology

Readers will find short general descriptions that encompass all organisms by groups, shape and size, Gram reaction, other pertinent morphological features, motility and flagella, relations to oxygen, basic type of metabolism, carbon and energy sources, habitat and ecology.

This reference volume also includes new genera and species, new combinations and new taxa published through the January 1992 issue of the *Journal of Systematic Bacteriology*. Includes discussions of difficulties in identification, keys or tables to genera and species, genus descriptions, synonyms, other nomenclatural changes and numerous illustrations.

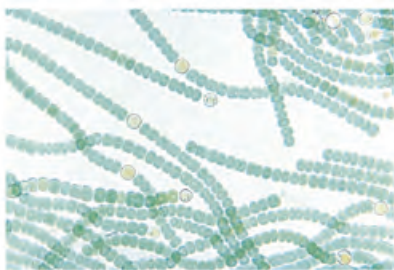


- Grades 9 to college
- Soft cover
- John G. Holt, PhD. 1994 (9th ed)
- 816 pages
- Based on the data contained in the four volume *Bergey's Manual of Systematic Bacteriology*

Cat. No.	Description	Price
S07431ND	Bergey's Manual of Determinative Bacteriology	257.00/Ea

## Carolina™ Cyanobacteria Cultures

Cyanobacteria, also known as blue-green bacteria, blue-green algae and Cyanophyta, is a phylum of bacteria that obtain their energy through photosynthesis.



Low light is 50 to 100 foot-candles of fluorescent light or fluorescent light from the ceiling; High light level is 200 to 400 ft. candles of fluorescent light 18 to 24 in. from the culture.

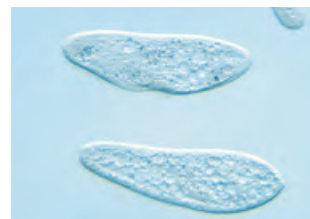
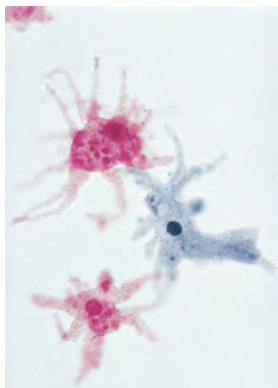
- Enough material for a class of 30 students
- Store at 22°C

Cat. No.	Product Type	Media Type	Scientific Name	Price
S07461ND	Anabaena	Alga-Gro™ Freshwater	Anabaena	11.00/Ea
S07474ND	Gloeocapsa	Allen's	Gloeocapsa	11.00/Ea
S07481ND	Oscillatoria	Alga-Gro™ Freshwater	Oscillatoria	11.00/Ea

## Protists

## Carolina™ Individual Protozoa Cultures and Mixtures

Protozoa show students the basic properties of living matter.



- Pure and uncontaminated cultures
- Cultures arrive ready to use

**Note:** To ensure you order enough living materials for the number of students in your class, order one culture for up to 30 students, two cultures for 31 to 60 students, three cultures for 61 to 90 students, etc.

### INCLUDES:

- Materials for a class of 30 students
- Dropping pipet
- Appropriate medium

Cat. No.	Description	Price
<b>Cultures</b>		
S07216ND	Volvox sp.	10.75/Ea
S07222ND	Euglena	10.75/Ea
S07489ND	Volvox globator	11.00/Ea
S07217ND	Amoeba proteus	10.75/Ea
S07218ND	Chaos (Pelomyxa) carolinensis	10.75/Ea
S07219ND	Paramecium	10.75/Ea
S07220ND	Paramecium caudatum	10.75/Ea
S07223ND	Stentor coeruleus	10.75/Ea
S07224ND	Vorticella	12.00/Ea
S07226ND	Didinium	11.00/Ea
S07447ND	Blepharisma	11.00/Ea
S07456ND	Tetrahymena sp.	13.25/Ea
S07463ND	Chlamydomonas	11.00/Ea
<b>Mixtures</b>		
S07227ND	Protozoan Mixture	17.75/Ea
S07228ND	Protozoa Survey Set	56.25/Ea
S07450ND	Ciliate Mixture	17.50/Ea
S07452ND	Pond Mixture	18.75/Ea
S07453ND	Pond Mystery Mix	15.75/Ea
S07455ND	Protozoa Survey Mixture	19.50/Ea

### ⚠️ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Carolina™ Protozoa Set

Protozoa are a diverse group of unicellular eukaryotic organisms, many of which are motile.



15 individually labeled cultures and culturing instructions are included.

### INCLUDES:

- *Actinosphaerium*
- *Amoeba*
- *Arcella*
- *Blepharisma*
- *Chlamydomonas*
- *Didinium*
- *Diffugia*
- *Dileptis*
- *Eudorina*
- *Euglena*
- *Euplotes*
- *Paramecium*
- *Spirostomum*
- *Stentor*
- *Volvox*

Cat. No.	Description	Price
S07443ND	Protozoa Set	161.00/Pk

## Carolina™ Amoeba, Paramecium and Euglena Review Set

The protozoan body consists of a single cell, but it is a mistake to think of these organisms as simple.



### INCLUDES:

- A separate culture of *Amoeba*, *Paramecium* and *Euglena*
- A pad of 30 Bioreview™ sheets for each culture
- Instructions for culturing each form
- Materials for a class of 30

Cat. No.	Description	Price
S07444ND	Amoeba, Paramecium, and Euglena Review Set	56.50/Pk

### ⚠ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Carolina™ Basic Protozoa Set

Watch *ameoba* capturing food, *paramecia* undergoing conjugation and *euglena* doing backflips.



- Three separate cultures

### INCLUDES:

- *Amoeba*
- *Euglena*
- *Paramecium*
- Culturing instructions

Cat. No.	Description	Price
S07446ND	Basic Protozoa Set	30.25/Pk

## Carolina™ Easy-View Protozoa Set

The five organisms in this set are specially selected for easy viewing under older, low-resolution microscopes.

*Chaos (Pelomyxa)* is stained with Vitachrome™; other cultures are not stained.

### INCLUDES:

- *Blepharisma*
- *Spirostomum*
- *Stentor coeruleus*
- Vitachrome
- *Chaos (Pelomyxa)*
- *Volvox globator*
- Materials for 30 students
- Culturing and care instructions



Cat. No.	Description	Price
S07457ND	Easy-View Protozoa Set	47.25/Pk



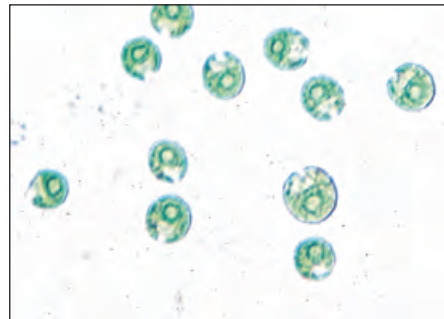
# Carolina™ Individual Algae Cultures

Algae are eukaryotic organisms that follow a reproduction cycle called alternation of generations.

50 to 100 foot-candles of fluorescent light or fluorescent light from the ceiling; high light level is 200 to 400 foot-candles of fluorescent light 18 to 24 in. from the culture.

**INCLUDES:**

- Materials for a class of 30 students
- Carolina Culturing Algae manual



Organism	Description	Medium	Light Level	Cat. No.	Price
<b>Green Algae</b>					
Cladophora	Freely Branched; marine	Alga-Gro™ Seawater	High	S07466ND	11.00/Ea
Chlamydomonas	Large form	Soil Water	High	S07464ND	11.00/Ea
Spirogyra	Spiral chloroplasts	Alga-Gro™ Freshwater	High	S07484ND	11.00/Ea
Volvox aureus	Cytoplasmic connections size of flagella	Alga-Gro™ Freshwater or Soil Water	High	S07487ND	11.00/Ea
Closterium	Elongated, single-celled desmid	Alga-Gro™ Freshwater	High	S07467ND	11.50/Ea
Chlorella	On liquid; best for teaching	Alga-Gro™ Freshwater	High	S07465ND	11.00/Ea
Scenedesmus	Four cells with spines	Alga-Gro™ Freshwater	High	S07483ND	11.00/Ea
V. globator	Thick cytoplasmic connections	Alga-Gro™ Freshwater or Soil Water	High	S07488ND	11.00/Ea
Green algae desmid culture cosmarium	Green algae desmid culture	Alga-Grotrademark™ Freshwater	Fluorescent	S22115ND	11.00/Ea
Ankistrodesmus	Green Unialgal culture	Alga-Grotrademark™ Freshwater	Fluorescent	S22117ND	11.00/Ea
<b>Diatoms</b>					
Synedra	Pinnate diatom culture	Alga-Gro™ Freshwater	High level 200 to 400 foot-candles of fluorescent light 18 to 24 in. from culture	S21859ND	12.75/Ea
<b>Dinoflagellates</b>					
Peridinium	Large freshwater form	Soil Water	High	S07482ND	11.00/Ea
<b>Euglenoids</b>					
Euglena gracilis	Active, good grower	Soil Water and Pea	Low	S07473ND	11.00/Ea
<b>Red Algae</b>					
Rhodymenia	Branched blades; marine	Alga-Gro™ Seawater	Low	S07252ND	11.50/Ea
Bangia	Unbranched thallus; marine	Alga-Gro™ Seawater	Low light level: 50 to 100 foot-candles of fluorescent light or fluorescent light from the ceiling	S21873ND	12.25/Ea
<b>Brown and Golden-Brown Algae</b>					
Nannochloropsis	Golden-brown nonmotile; marine	Alga-Gro™ Seawater	High light level is 200 to 400 foot-candles of fluorescent light 18 to 24 in. from the culture	S21864ND	11.50/Ea
<b>Other</b>					
Dictyota	Ribbon-like blades; marine	Alga-Gro™ Seawater	Light level: High, 200 to 400 foot-candles of fluorescent light 18 to 24 in. from the culture.	S21868ND	11.00/Ea

**⚠️ ALERTS:**

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Carolina™ Collected Algae

Each culture contains enough material for a class of 30 students.



- Collected algae are not necessarily free of unidentified organisms

### INCLUDES:

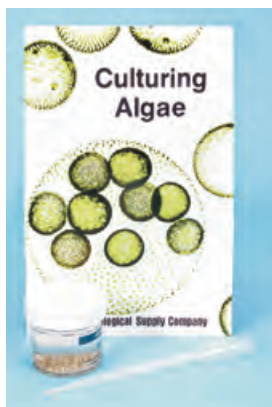
- Each order of algae comes with a Carolina™ Culturing Algae manual

Cat. No.	Description	Price
<i>Freshwater Algae</i>		
S07468ND	Euglena Culture	11.50/Ea
S07486ND	Chara	13.00/Ea
S07469ND	Spirogyra	12.75/Ea

<sup>†</sup> Due to State restrictions *Ulva* will not ship into: WI.

## Carolina™ Special Algae Mixtures

Most algae are photosynthetic and “simple” because they lack the many distinct cell and organ types found in land plants.



Cat. No.	Description	Price
S07471ND	Diatom Mixture	12.75/Ea
S07475ND	Green Algae Mixture	18.25/Ea
S07477ND	Marine Dinoflagellate Mixture	20.25/Ea
S07485ND	Algae Survey Mixture	19.50/Ea

## Fungi

## Carolina™ Slime Mold Cultures

Slime mold is a broad term describing some organisms that use spores to reproduce.



- Myxomycetes
- **Note:** To ensure you order enough living materials for the number of students in your class, order one culture for up to 30 students, two cultures for 31 to 60 students, three cultures for 61 to 90 students, etc.

### INCLUDES:

- Enough materials for 30 students

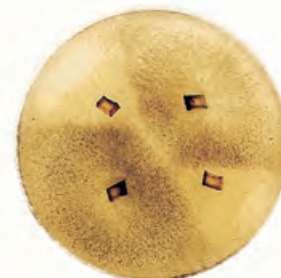
Cat. No.	Description	Media Type	Packaging	Price
S07213ND	Physarum Polycephalum Plasmodium Culture	2% Agar with Old Fashioned Quaker™ Oats	Plate	17.75/Ea

<sup>‡</sup>When you receive your *Physarum* culture, remove the sealing tape from the Petri dish and sprinkle a few grains of oat flakes (rolled oats) along the edges of the culture growth. Keep the Petri dish at room temperature (68 to 72°F, 20 to 22°C) in indirect light until ready to use. When *Physarum* reaches the full perimeter of the Petri dish, set up a new culture to keep your slime mold at its best.

## Carolina™ *Sordaria* Demonstration Cross Plate

A cross of *Sordaria fimicola* wild type and the mutant tan strain for demonstrating genetic crossing-over.

- Easy to perform
- Requires some basic training in microbiology
- One plate



Cat. No.	Description	Price
S07440ND	<i>Sordaria</i> Demonstration Cross Plate	34.00/Ea

### ⚠ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Plants

## Carolina™ Basic Plant Kingdom Survey Set

This survey set is an excellent introduction to plant taxonomy.

- 10 plants, each representative of one of the major plant kingdom groups

### INCLUDES:

- Algae
- Liverwort
- Moss
- Fern
- *Selaginella*
- Gymnosperm
- Two dicots
- Two monocots
- Study Guide



Cat. No.	Description	Price
S07542ND	Basic Plant Kingdom Survey Set	88.00/Pk

## Carolina™ Plants



S07511ND



S07503ND



S07512ND



S07514ND



S07518ND



S07521ND



S07517ND

## Liverworts

Description	Seasonal Availability	Qty.	Cat. No.	Price
Liverwort Set: Includes four different liverworts	No Restriction	1 Set	S07511ND	38.75
<i>Marchantia</i>	No Restriction	4.5 × 4.5" Sample	S07503ND	17.50

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: CA: (S07511ND, S07503ND).

## Lichens

Description	Seasonal Availability	Qty.	Cat. No.	Price
Lichen Set: Includes portions of <i>crustose</i> , <i>Foliose</i> , <i>Fruticose</i> pendant and <i>Fruticose</i> lichens	No Restriction	1 Set	S07512ND	25.00

**SHIPPING ALERT:** Due to state restrictions this item will not ship into: CA: (S07512ND).

## Mosses

Description	Seasonal Availability	Qty.	Cat. No.	Price
Sporulating Moss	No Restriction	12 Sporophytes	S07514ND	17.50
<i>Polytrichum</i>	No Restriction	12 Plants	S07518ND	14.75
<i>Sphagnum</i>	No Restriction	4 × 6" Sample	S07521ND	14.74
Moss Set: Includes vegetative portions of three mosses	Genera may vary seasonally	1 Set	S07517ND	39.25

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: CA: (S07514ND, S07518ND, S07521ND, S07517ND).

Contd. on the next page.

### ⚠️ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000



## Carolina™ Plants, Contd.



S07558ND



S07561ND



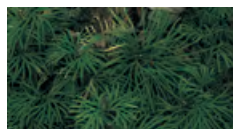
S07505ND



S07571ND



S07564ND



S07563ND



S07519ND



S07554ND



S07565ND



S07570ND



S07550ND



S07553ND



S07500ND

## Ferns

Description	Seasonal Availability	Qty.	Cat. No.	Price
Fern with Sori	No Restriction	Ea.	S07558ND	19.75
Korean Rock Fern	No Restriction	Ea.	S07561ND	13.00
Tropical Fern Set: Includes five different tropical ferns	No Restriction	1 Set	S07571ND	60.50

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: CA: (S07558ND).

## Fern Allies

Description	Seasonal Availability	Qty.	Cat. No.	Price
<i>Lycopodium lucidulum</i>	No Restriction	Ea.	S07564ND	15.75
<i>Selaginella</i>	No Restriction	12/Pk	S07519ND	16.00
Fern Allies Set: Includes <i>Selaginella</i> , <i>Lycopodium</i> and <i>Equisetum</i>	No Restriction	1 Set	S07554ND	55.75

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: CA: (S07554ND).

## Carnivorous Plants (Angiosperms)

Description	Seasonal Availability	Qty.	Cat. No.	Price
Sundew	No Restriction	Ea.	S07570ND	15.25

## Angiosperms

Description	Seasonal Availability	Qty.	Cat. No.	Price
<i>Coleus</i>	No Restriction	Ea.	S07550ND	12.75
Fancy <i>Coleus blumei</i>	No Restriction	Ea.	S07553ND	12.75
<i>Elodea</i> Tips	No Restriction	1 Sample	S07500ND	14.50

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: AL, IN, MA, ME, MI, NH, OR, VT, WA, WI: (S07500ND).

⚠ **ALERTS:**

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## Animals

## Carolina™ Hydra, Planaria and Daphnia Review Set

Observe the similarities and differences between some of the most popular invertebrates.



### INCLUDES:

- A separate culture of *Hydra*, *Planaria* and *Daphnia*
- A pad of 30 Bioreview™ Sheets for each
- Instructions for culturing each form

Cat. No.	Description	Price
S07594ND	Hydra, Planaria, and Daphnia Review Set	54.25/Pk

## Carolina™ General Invertebrate Set

Tiny aquatic wonders.

- Recommended for comparative studies
- Includes representatives from a variety of invertebrate phyla
- Perfect for dichotomous key exercises
- Eight individually labeled cultures representing invertebrates commonly used in high school and college Biology courses



### INCLUDES:

- *Amoeba*
- *Paramecium*
- *Aelosoma*
- Brown *Hydra*
- Brown *Planaria*
- *Daphnia*
- Rotifers
- Vinegar eels
- Instructions

Cat. No.	Description	Price
S07589ND	General Invertebrate Set	76.00/Pk

## Carolina™ Invertebrates

### INCLUDES:

- Instructions



S07501ND



S07265ND



S07270ND



S07596ND

## Freshwater Sponges

Description	Seasonal Availability	Qty.	Cat. No.	Price
<i>Spongilla</i>	No Restriction	1 Culture	S07501ND	28.75

## Freshwater Coelenterates

Description	Seasonal Availability	Qty.	Cat. No.	Price
<i>Hydra</i>	No Restriction	1 Culture	S07265ND	11.75
<i>Hydra</i> , Coupon	No Restriction	1 Culture	S07265CND	24.00
Mixed <i>Hydra</i>	No Restriction	1 Culture	S07270ND	15.75
Mixed <i>Hydra</i> , Coupon	No Restriction	1 Culture	S07270CND	30.00
Budding <i>Hydra</i>	No Restriction	1 Culture	S07596ND	14.50
Green <i>Hydra</i>	No Restriction	1 Culture	S07230ND	17.25

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

### ⚠ ALERTS:

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Contd. on the next page.

## Carolina™ Invertebrates, Contd.



S07590ND



S07229ND



S07591ND



S07225ND



S07266ND



S07267ND



S07601ND



S07458ND



S07231ND



S07592ND

## Platyhelminthes

Description	Seasonal Availability	Qty.	Cat. No.	Price
<i>Planaria</i>	No Restriction	1 Culture	S07590ND	13.25
Brown <i>Planaria</i>	No Restriction	1 Culture	S07229ND	13.25
Black <i>Planaria</i> , Culture	No Restriction	1 Culture	S07591ND	16.00
Mixed <i>Planaria</i>	No Restriction	1 Culture	S07225ND	19.00
<i>Dugesia dorotocephala</i>	Aug. 1 to Feb.	1 Culture	S07266ND	16.00

**SHIPPING ALERT: Because Black Planaria (S07591ND) are scarce in the spring, other species may be substituted.**

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Nematodes

Description	Seasonal Availability	Qty.	Cat. No.	Price
Vinegar Eels	No Restriction	1 Culture	S07267ND	12.25
<i>Caenorhabditis elegans</i> N2	No Restriction	1 Culture	S07601ND	18.00

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Rotifers

Description	Seasonal Availability	Qty.	Cat. No.	Price
<i>Philodina</i>	No Restriction	1 Culture	S07458ND	11.00
Mixed Rotifers	No Restriction	1 Culture	S07231ND	13.25

## Tardigrades

Description	Seasonal Availability	Qty.	Cat. No.	Price
Water Bears	No Restriction	1 Culture	S07592ND	16.50

## ⚠️ ALERTS:

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## Carolina™ Annelids

### INCLUDES:

- Instructions



S07237ND



S07600ND



S07605ND



S07272ND

## Leeches

Description	Seasonal Availability	Qty.	Cat. No.	Price
Leeches, Medium	No Restriction	3/Pk	S07237ND	18.00

## Earthworms & Redworms

Description	Seasonal Availability	Qty.	Cat. No.	Price
Earthworms, Medium	No Restriction	25/Pk	S07605ND	26.75
Earthworms, Large	No Restriction	12/Pk	S07603ND	14.50
Earthworms, Large	No Restriction	25/Pk	S07271ND	25.25
Earthworms, Large	No Restriction	100/Pk	S07604ND	68.75
Redworms	No Restriction	75 to 100	S07272ND	20.75

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Carolina™ Mollusks

### INCLUDES:

- Instructions



S07611ND



S07278ND



S07607ND

## Large Aquarium Snails

Description	Seasonal Availability	Qty.	Cat. No.	Price
Mystery Snails, Large	No Restriction	3/Pk	S07611ND	14.25
Mystery Snails Set	No Restriction	1 Set	S07610ND	34.25

**SHIPPING ALERT:** Due to state restrictions this item will not ship into: AK, VA (S07611ND, S07610ND).

## Aquatic Snails

Description	Seasonal Availability	Qty.	Cat. No.	Price
Pond Snails, Medium	No Restriction	12/Pk	S07278ND	18.50
Pond Snails, Medium, Coupon	No Restriction	12/Pk	S07278CND	34.50
Ramhorn Snails	No Restriction	12/Pk	S07607ND	18.50

**SHIPPING ALERT:** Due to state restrictions this item will not ship into: AK (S07278ND, S07278CND, S07607ND), AK, VA (S07607ND).

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

### ⚠️ ALERTS:

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## Carolina™ Arthropods

### INCLUDES:

- Instructions



S07232ND



S07598ND



S07233ND



S07623ND



S07626ND



S07614ND

## Crustacea

Description	Seasonal Availability	Qty.	Cat. No.	Price
Mixed Crustaceans	No Restriction	4/Pk	S07232ND	18.75

**SHIPPING ALERT: Due to state restrictions these items will not ship into: CA: (S07232ND).**

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Shrimp

Description	Seasonal Availability	Qty.	Cat. No.	Price
Brine Shrimp	No Restriction	2 oz.	S07598ND	24.50
Brine Shrimp Eggs	No Restriction	1 oz.	S07233ND	13.25
Brine Shrimp Eggs	No Restriction	2 oz.	S07599ND	25.25

## Crabs

Description	Seasonal Availability	Qty.	Cat. No.	Price
Land Hermit Crabs	No Restriction	3/Pk	S07623ND	24.00
Fiddler Crabs	No Restriction	3/Pk	S07626ND	28.25

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Crayfish

Description	Seasonal Availability	Qty.	Cat. No.	Price
Crayfish, Medium, 3"	No Restriction	12/Pk	S07617ND	57.75
Crayfish, Large, >3-1/2"	No Restriction	3/Pk	S07614ND	18.25

**SHIPPING ALERT: Due to state restrictions these items will not ship into: AK, VA, UT: (S07617ND, S07614ND).**

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

**⚠ ALERTS:**  
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Contd. on the next page.

Carolina™ Arthropods, Contd.



S0782ND



S07281ND



S07643ND



S07274ND



S07666ND



S07657ND

## Isopods

Description	Seasonal Availability	Qty.	Cat. No.	Price
Sow Bugs ( <i>Porcellio</i> )	No Restriction	50/Pk	<b>S07274ND</b>	46.00
Sow Bugs ( <i>Porcellio</i> ), Coupon	No Restriction	50/Pk	<b>S07274CND</b>	58.50
Pill Bugs ( <i>Armadillidium</i> )	No Restriction	12/Pk	<b>S07653ND</b>	14.50
Pill Bugs ( <i>Armadillidium</i> )	No Restriction	50/Pk	<b>S07654ND</b>	45.75
Pill/Sow Bugs	No Restriction	25/Pk	<b>S07651ND</b>	23.50

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Myriapods

Description	Seasonal Availability	Qty.	Cat. No.	Price
Millipede, 3 to 4"	No Restriction	12/Pk	<b>S07657ND</b>	56.75

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: LA (S07657ND).

## Roaches

Description	Seasonal Availability	Qty.	Cat. No.	Price
Madagascar Hissing Cockroach	No Restriction	Ea.	<b>S07282ND</b>	13.75
Madagascar Hissing Cockroach	No Restriction	3/Pk	<b>S07660ND</b>	33.50

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: AZ, FL, TN: (S07282ND, S07660ND).

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Termites

Description	Seasonal Availability	Qty.	Cat. No.	Price
Termite Workers	Fragile during early fall	25/Pk	<b>S07666ND</b>	25.00
Termite Workers	Fragile during early fall	100/Pk	<b>S07667ND</b>	56.50
Termite Digestive Symbionts	Fragile during early fall	25/Pk	<b>S07668ND</b>	21.75
Termite Digestive Symbionts	Fragile during early fall	100/Pk	<b>S07669ND</b>	51.50

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: AK, NV, OR: (S07666ND, S07667ND, S07668ND, S07669ND).

## Milkweed Bugs

Description	Seasonal Availability	Qty.	Cat. No.	Price
Milkweed Bug Eggs	No Restriction	30/Pk	<b>S07281ND</b>	21.75

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

### ⚠️ ALERTS:

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Contd. on the next page.



Carolina™ Arthropods, Contd.



S07236ND



S07275ND



S07697ND

## Mealworms

Description	Seasonal Availability	Qty.	Cat. No.	Price
Mealworm Larvae	No Restriction	50/Pk	S07645ND	13.00
Mealworm Larvae	No Restriction	100/Pk	S07275ND	15.75
Mealworm Larvae, Coupon	No Restriction	100/Pk	S07275CND	29.25
Mealworm Adults	No Restriction	12/Pk	S07643ND	17.25
Mealworm Assortment (15 Adults, 15 Larvae and 2 to 5 Pupae), Coupon	No Restriction	Ea.	S07276CND	32.75
Bran Meal	No Restriction	2.5kg	S07236ND	14.25

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Moths

Description	Seasonal Availability	Qty.	Cat. No.	Price
Hornworm Larvae	No Restriction	12/Pk	S07697ND	60.25

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: AK, MN, MT, WA: (S07697ND).

## Carolina™ Lady Beetle 10-Larvae Culture

Observe all 4 stages of complete metamorphosis with lady beetle larvae.



- Alligator-like larvae grow, pupate and metamorphose in 10 to 14 days.
- At least 5 of the 10 to 15 larvae guaranteed to emerge as healthy adult lady beetles.
- Store at 22° to 25°C

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.



Cat. No.	Description	Price
S72460	Live Specimen	19.50/Ea
S72461	Coupon	29.00/Ea

### ⚠ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Carolina™ Painted Lady Butterfly Larvae Sets

Teach the concept of butterfly life cycles

The larvae pupate and emerge as adult butterflies in as little as three weeks. Witnessing metamorphosis is an experience that students never forget!

- Kits include sufficient food to enable larvae to emerge as adult butterflies.
- Store at 22° to 25°C

### 5-Larvae Culture Kit:

- 8 oz. cup with food
- Five *Vanessa cardui* butterfly larvae
- Larvae care instructions

### 33 Larvae Culture Kit:

- 1 cup of 33 larvae
- 1 cup of food

### 60 to 75 Larvae Culture Kit:

- 2 cups with a total of 60 to 75 larvae
- 2 cups of food

**Note:** Additional larvae are supplied with each Larvae/Food Set to ensure that at least the specified amount of larvae emerge as healthy adults. Extra food must be purchased if you wish to maintain additional larvae.



Cat. No.	Description	Price
S07704ND	Painted Lady Butterfly 5 Larvae Culture	20.50/Pk
S07705ND	Painted Lady Butterfly 5 Larvae Culture Coupon	30.50/Ea
S07710ND	Painted Lady Butterfly Culture 33 Larvae Set	60.00/Pk
S07711CND	Painted Lady Culture 33 Larvae Set	70.25/Ea
S07706ND	Painted Lady Butterflies, 60-75 Larvae Set	96.00/Pk

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

## Carolina™ Butterflies in the Classroom Kit

These kits make keeping live butterflies simple, fun and affordable.

This kit allows students to work hands-on with living butterflies. From a culture cup that contains 33 larvae and food, each student (or pair of students) transfers a larva and food to its own culture vessel, creating an individual chamber for observation. The provided habitat is simple to set up, easy to clean, great for viewing and collapses for convenient storage.

### INCLUDES:

- Painted Lady Butterfly Culture (33 larvae with food)
- Painted Lady Butterfly Culture Medium (food)
- Carolina Butterfly Sanctuary
- 33 1 oz. cups with lids
- Five wooden craft sticks
- Five sorting brushes
- 10 Kimwipes™
- Foam flower
- Cotton wick
- Teacher's Manual and Reproducible Student Guide

### REQUIRES:

Spray bottle; small bottle or vial; sugar; water; food coloring (optional); host plants (mallow, thistle, daisy, etc. optional)



Cat. No.	Description	Price
S07707ND	Butterflies in the Classroom Kit (with Live Caterpillars)	81.00/Ea
S07708ND	Butterflies in the Classroom Kit (with Prepaid Coupon)	87.00/Ea

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

### ⚠️ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Carolina™ Ants and Ant Farm

Watch how ants live and work.

- This farm can also be connected to any number of other connectable ant farms
- Only nonreproductive ants, not queen ants
- Store at 16° to 21°C

### Replacement Ants:

About 30 living ants

### INCLUDES:

- Four portals with four lock-tight caps
- Clear, flexible Antway travel tubes
- Wider base
- Ant food
- Sterile white tunneling sand
- Illustrated Ant Watcher's Manual
- Coupon good for a generous supply of hardworking harvester ants



Cat. No.	Description	Price
S07647ND	Ant Farm Coupon	36.50/Ea
S07648ND	Replacement Ants	14.75/Ea

## Carolina™ Freshwater Fish

### INCLUDES:

- Instructions



S07716ND



S07719ND



S07720ND



S07713ND



S07715ND



S07714ND



S07730ND

## Goldfish

Description	Seasonal Availability	Qty.	Cat. No.	Price
Comet Goldfish	See Seasonal Alert	12/Pk	S07719ND	26.75

**SEASONAL ALERT:** Some animals are seasonal and do not appear at their best throughout the year, we reserve the right to make substitutions when it seems advisable. Any substitutions will be equal in value and appearance to those listed above.

**Note:** Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

## Game Fish

Description	Seasonal Availability	Qty.	Cat. No.	Price
Gambusia	No Restriction	12/Pk	S07720ND	20.25
Largemouth Bass	May to Nov.	3/Pk	S07713ND	36.50
Blue Channel Catfish	No Restriction	3/Pk	S07715ND	27.50
Bluegill	No Restriction	3/Pk	S07714ND	23.00

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: AK, VA: (S07720ND, S07713ND, S07715ND, S07714ND); NV: (S07715ND, S07714ND, S07713ND); WI: (S07720ND).

## Zebra Fish

Description	Seasonal Availability	Qty.	Cat. No.	Price
Zebra Fish; Male	No Restriction	12/Pk	S07736ND	54.75
Zebra Fish; Female	No Restriction	12/Pk	S07737ND	54.75

### ⚠️ ALERTS:

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000



# Carolina™ Amphibians

**INCLUDES:**

- Instructions



S07738ND



S07741ND

## Specialty Frogs

Description	Seasonal Availability	Qty.	Cat. No.	Price
Dwarf Aquarium Frogs, 1"	No Restriction	3/Pk	S07738ND	23.50

**SHIPPING ALERT:** Due to state restrictions these items will not ship into: AK, VA: (S07738ND).

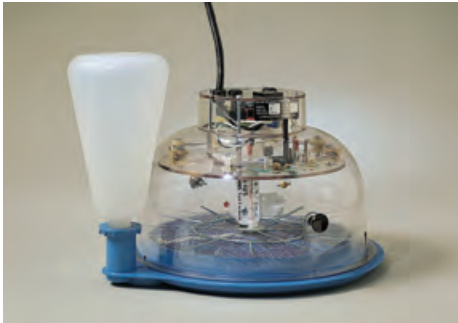
## Bullfrogs

Description	Seasonal Availability	Qty.	Cat. No.	Price
Bullfrog Tadpoles, Medium; Up to 2"	No Restriction	12/Pk	S07741ND	25.75

**SHIPPING ALERT:** Due to state restrictions this item will not ship into: AK, NV: (S07741ND).

## Turn-X™ Transparent Egg Incubator

Fully automatic egg turning.



Holds up to 18 chicken eggs. Produces large hatches of healthy chickens with little attention.

- Egg and chick compartment completely uncluttered for full visibility
- Fully-automatic egg turning with fan-circulated air; for 110 to 115V
- Solid-state temperature control regulated from outside the incubator
- Easily refillable exterior water fountain eliminates the need to remove cover
- Humidity is controlled from outside the incubator
- Two center-mounted thermometers (one wet bulb, one dry bulb) for temperature and humidity readings
- Weight: 10 lb. (4.4kg)

Cat. No.	Description	Price
S50455	Turnx Egg Incubator 120v	516.00/Ea

## Aquariums & Terrariums

# AquaPhoenix™ Education Aquarium Tanks

Tanks in sizes from 10 to 55 gallons.



- Aquariums are made with glass panels, fitted and silicone-sealed into injected molded frames
- Lighted hood covers and electronic ballast hold fixtures for a single fluorescent bulb (available separately)

Cat. No.	Description	Price
S06522	10 gal.	70.50/Ea

**⚠️ ALERTS:**

Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## AquaPhoenix™ Basic Aquarium Kit

Marina Style 10 kit comes with everything you need for an easy set-up experience.

Measuring only 20 × 10 × 12 in. (50 × 25 × 30cm), the sleek design helps save valuable classroom space.

### INCLUDES:

Marina Slim S15 clip-on filter with quick change filter cartridges, an incandescent canopy and bottom frame with two 15w clear bulbs, Nutrafin Max fish food, Nutrafin AquaPlus and Nutrafin Cycle water purifiers, fish net, thermometer and care guide



Cat. No.	Description	Price
S06532	Marina Style 10 Kit	160.00/Ea

## AquaPhoenix™ Deluxe Aquarium Kit

Combining functionality and design, the Marina Deluxe 20 kit comes with everything for a quick and easy aquarium setup.

Measures only 24 × 12 × 15 in. (61 × 30 × 38cm). Sleek design provides a large aquatic environment while helping to save valuable classroom space.

### INCLUDES:

Marina Slim S20 clip-on filter with quick change filter cartridges, a full-spectrum canopy with 18 in. Sun-Glo fluorescent bulb, Nutrafin Max fish food, Nutrafin AquaPlus and Nutrafin Cycle water purifiers, fish net, thermometer and care guide

Cat. No.	Description	Price
S06533	Marina Deluxe 20	216.00/Ea



## Carolina™ Freshwater Aquarium Plants

Fill your classroom aquarium with these freshwater aquarium plants.

Cat. No.	Description	Price
S07491ND	Azolla, Pack of 100	14.75/Pk
S07490ND	Ceratophyllum; Pack of 12	25.50/Pk
S07492ND	Cabomba; Pack of 25	26.25/Pk
S07493ND	Duckweed, Pack of 150	12.00/Pk
S07494ND	Elodea canadensis; Pack of 12	16.50/Pk
S07495ND	Elodea canadensis; Pack of 25	30.75/Pk
S07496ND	Elodea densa, Coupon; Pack of 12	22.75/Ea
S07497ND	Elodea densa; Pack of 12	22.00/Pk
S07498ND	Elodea densa; Pack of 25	17.75/Pk
S07499ND	Elodea densa; Pack of 50	28.75/Pk
S07502ND	Ludwigia; Pack of 12	12.50/Pk
S07506ND	Oxygenating Plants Set; Pack of 24	25.75/Pk
S07510ND	Salvinia; Pack of 100	12.50/Pk



## Carolina™ Carnivorous Plant Terrarium

Students can enjoy a terrarium with carnivorous plants.



**INCLUDES:**

- Pitcher plant
- Venus flytrap
- Cape sundew
- *Sphagnum* moss
- 4L vessel
- Soil
- Instructions

## Carolina™ Desktop Garden

Enjoy a garden at your desk.

- 9 in. dia × 13 in. H (22.5 × 33cm)
- Assembly required

**INCLUDES:**

- 3 gal. plastic round terrarium
- Gravel
- Soil
- Korean Rock Fern
- Vegetative Moss
- Fruticose Lichen
- *Selaginella*
- Instructions



Cat. No.	Description	Price
S07548ND	Carnivorous Plant Terrarium	58.75/Ea

Cat. No.	Description	Price
S07552ND	Desktop Garden	38.25/Ea

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part of Thermo Fisher Scientific



## Read About Preserved Specimens



### Fisher-Free™ and Fisher Science Education™ Bio-Fresh™ Specimens

Fisher-Free specimens have never been exposed to formaldehyde and are 100% formaldehyde-free. After being fixed in a special chemical that's completely consumed during fixation, these specimens are rinsed and stored in a formaldehyde-free Fisher Science Education Bio-Fresh preservative. The specimens have a pleasant scent and resist mold and stiffening.

Bio-Fresh specimens are fixed with formaldehyde and then repeatedly washed in Bio-Fresh solution to reduce residual formaldehyde. Every specimen meets or exceeds OSHA standards for formaldehyde in the lab. See p. 94 for concentrated Fisher Science Education Bio-Fresh solution. Look for the Fisher-Free and Bio-Fresh names on a variety of specimens beginning on p. 70.

### Specimens with both treatments are available with colored latex injections to make major systems easier to identify.

- Single injected: red latex in the arterial system
- Double injected: blue latex in venous system, red in arterial system
- Triple injected: yellow latex in the hepatic portal system, blue in the venous system, and red in the arterial system

### The Fisher Science Education team is committed to providing the highest quality specimens and service.

- All biological specimens are guaranteed for one year
- Receive a full credit on any defective merchandise
- Call Fisher Science Education customer service at **1-800-955-1177** for more information

## Safety, Storage, and Disposal

- Fisher Science Education specimens meet or exceed OSHA formaldehyde standards of less than 0.75ppm for eight hours of exposure in a typically ventilated lab
- Refrigeration is not necessary, but extreme temperatures (low and high) should be avoided
- Keep vac-packs sealed until needed, then store specimens in Fisher Science Education Bio-Fresh holding solution for reuse
- Disposal is simple — treat specimens and liquids like any other solid and liquid waste
- Always follow your area's guidelines for disposal, dumping, or incineration

## Packaging and Labeling

- Most specimens are available in your choice of pails or vacuum-sealed plastic bags. Some smaller specimens come in jars, where indicated.



## Bio-Fresh Pails

- Filled with Fisher Science Education Bio-Fresh preservative for safe shipping and easy storage of specimens
- Ideal for specimens intended for reuse
- Contents, lot numbers, and production dates are printed on every label
- Due to the weight of the liquid, special shipping charges apply

## Vac-Packs

- Good solution for customers who already have storage methods (pails, plastic bags, etc.)
- Individually packaged specimens are very convenient and easy to distribute to students
- Smaller specimens such as grasshoppers and sheep eyes come in packs of 10 to reduce waste
- Heat sealed with three layers of impermeable plastic and stamped with a production date and lot number



## Specimen Acquisition

We recognize the role that respect for life and the environment play in biology education, which is why only humane and socially acceptable methods of collection are used for the specimens you'll receive. We select suppliers who are in strict accordance with all government guidelines and regulations, and who have all necessary permits for obtaining, processing, and transporting specimens. Endangered, threatened, and protected wildlife will never be sold.

# NO CATS? TRY MINK

Industry shortages have left us with a limited supply of preserved cats. But we do have preserved mink, an excellent alternative for cat dissections.

- Average length: 13 to 17 in. (33 to 43cm)
- Preskinned to reduce lab waste and save time in dissection preparation
- Slender with very small amounts of adipose tissue
- May have cut hands and feet from skinning process

Injection Type	Cat. No.	Price	Case of 10
Plain	<b>S37304*</b>	\$15.50	\$130.00
Double	<b>S37305*</b>	\$19.25	\$160.00
Triple	<b>S37306*</b>	\$21.00	\$188.00



## Preserved Specimens

### Carolina™ Formalin Squid

For use in exploring form and function of cephalopods. Carolina™ Formalin Squid is complex mollusk with tentacles, arms, and well-developed eye.

- *Loligo pealeii* or *Illex illecebrosus*
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- **Plain:** Circulatory system not injected with colors
- **Single:** Arteries injected with red latex
- **Double:** Arteries red, veins blue



Cat. No.	Length (English)	Injection Type	Price
<b>S37622*</b>	12+ in.	Plain	8.90/Ea
<b>S37623*</b>	12+ in.	Single	10.75/Ea
<b>S37624*</b>	12+ in.	Double	14.00/Ea
<b>S37625*</b>	8 to 12 in.	Plain	6.15/Ea
<b>S37626*</b>	8 to 12 in.	Single	7.70/Ea
<b>S37627*</b>	Up to 8 in.	Plain	3.45/Ea



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 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
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PRESERVED SPECIMENS

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Squid

*Loligo sp.*

- One of the most developed mollusks
- With well-developed eyes, the squid is a predatory and extremely active animal
- Used for grasping small fish and feeding their horny beaks, their tentacles are highly modified homologues of the clam or snail “foot”



Cat. No.	Length (English)	Quantity	Injection Type	Price
S3056S*	12 to 16 in.	50/CS	Plain	95.00/Pk
S3062S*	8 to 10 in.	100/CS	Plain	6.25/Ea
S3072S*	5 to 8 in.	200/CS	Plain	44.75/Pk
S3080S*	12 to 16 in.	100/CS	Single	110.00/Pk
S3088S*	8 to 12 in.	150/CS	Single	95.00/Pk
S3094S*	5 to 8 in.	10 Pk	Single	57.50/Pk
S5105*	8 to 12 in.	10 Pk	Plain	73.25/Pk
S5113*	12 to 16 in.	Each	Plain	7.75/Ea
S5115*	8 to 12 in.	Each	Single	8.45/Ea

Carolina™ Formalin Skate

For use in enhancing study of cartilaginous fishes. Carolina™ Formalin Skate is ideal for comparative and vertebrate anatomy classes.



- Member of class Chondrichthyes
- Shipped in Carosafe™, Carolina’s proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde

Skates

*Raja sp.*




Example of a vertebrate with a cartilaginous skeleton and jaws.

- Typical vertebrate
- Example of a bottom-feeding elasmobranch

Cat. No.	Description	Price
S37628*	Formalin Skate	10.25/Ea

Cat. No.	Description	Price
S1214S*	Skate	9.40/Ea



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## Dogfish Sharks

*Squalus acanthius*



Sharks and the cartilaginous skeletoned fishes are representatives of a group of fish whose ancestors were the first jaw-bearing vertebrates. Except for skeletal degeneration, sharks are good examples of a fairly primitive type.

- These sharks are from the Class *Chondrichthyes Elasmobranchii squalus*, the dogfish sharks
- Shark color injections differ from the standard color progression (see Injection Key)
- Packed in Fisher Science Education™ Bio-Fresh™

### ORDERING INFORMATION:

#### INJECTION KEY

- **Plain:** Circulatory system not injected with colors
- **Single:** Arterial system injected with red latex
- **Double:** Hepatic portal system injected with blue latex
- **Triple:** Systemic veins injected with yellow latex

Cat. No.	Injection Type	Price
S1030S*	Single	19.75/Ea
S1502*	Double	20.25/Ea
S07053*	Double	207.00/Pk
S1503S*	Plain	18.00/Ea
S1504*	Double	21.75/Ea
S1505*	Triple	24.75/Ea
S1508*	Triple	23.25/Ea
S1501*	Plain	14.25/Ea
S1509S*	Plain	6.80/Ea

## Grey Perch

*Pomadasys magranthus*



- The bony fish specimen of choice in many laboratories has been the yellow perch. In recent years, however, the Mexican grey perch has increasingly been used as a substitute because it can be obtained at a lower cost, yet it provides striking physiological similarities to the yellow perch.
- We offer specimens in Fisher Science Education™ Bio-Fresh™ or our 100% formaldehyde-free Fisher-Free™ preparation, depending on your needs and preferences

### INJECTION KEY

**PLAIN:** Circulatory system not injected with colors

### Grey Perch, Biofresh™

Cat. No.	Injection Type	Length (English)	Price
S0092S*	Double	9 to 12 in.	77.00/Pk
S9001*	Plain	5 to 7 in.	10.50/Pk
S9002	Plain	7 to 9 in.	18.50/Pk
S9002100	Plain	7 to 9 in.	200.00/Ea
S9003S	Single	9 to 12 in.	59.75/Pk
S9004*	Plain	9 to 12 in.	39.50/Pk

### Grey Perch, Fisher-Free™

Cat. No.	Injection Type	Length (English)	Price
S0850S	Plain	9 to 12 in.	46.50/Pk
S0852S	Double	9 to 12 in.	79.00/Pk

## Carolina™ Formalin Dogfish Sharks

For use in exploring anatomy of cartilaginous fish. Carolina™ Formalin Dogfish Sharks are ideal for comparative and vertebrate anatomy classes.

- Member of class Chondrichthyes
- Mature specimens
- Characteristics: cartilaginous skeleton, five pairs of gill slits, no swim bladder or operculum
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid

### ORDERING INFORMATION:

#### INJECTION KEY

- **Plain:** Circulatory system not injected with colors
- **Single:** Arterial system injected with red latex
- **Double:** Hepatic portal system injected with blue latex
- **Triple:** Systemic veins injected with yellow latex



Cat. No.	Length (English)	Length (Metric)	Injection Type	Price
S37630*	27+ in.	68.5+ cm	Plain	22.00/Ea
S37631*	27+ in.	68.5+ cm	Single	21.75/Ea
S37632*	27+ in.	68.5+ cm	Double	23.50/Ea
S37633*	27+ in.	68.5+ cm	Triple	26.75/Ea
S37634*	22 to 27 in.	55.8 to 68.5cm	Plain	18.75/Ea
S37636*	22 to 27 in.	55.8 to 68.5cm	Double	23.00/Ea
S37637*	22 to 27 in.	55.8 to 68.5cm	Triple	26.00/Ea



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## Carolina™ Formalin Perch

For use in studying anatomy and physiology of bony fish. Carolina™ Formalin Perch belongs to class Osteichthyes.



- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is dorless fluid designed to minimize unpleasant odor of formaldehyde
- 5 per bag

Cat. No.	Length (English)	Injection Type	Price
S37704*	9+ in.	Double	75.00/Ea
S37706*	5 to 7 in.	Plain	14.50/Ea

## Clams and Mussels



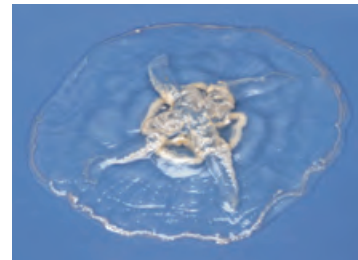
Cat. No.	Preservative	Description	Packing	Size	Price
S2470S*	Formaldehyde	Marine Mussel	----	----	22.25/Pk
S2528S*	Formaldehyde	Marine Clam	----	Large	22.00/Pk
S5002*	Bio-Fresh™	Fresh Water Clam	Vacuum Pk	Large, 4 to 5 in.	20.75/Pk
S5002P*	Bio-Fresh™	Mollusca Clam	Pail	Large, 4 to 5 in.	23.50/Pk

**Single:** Arteries injected with red latex  
**Double:** Arteries red, veins blue  
**Triple:** Systemic veins injected with yellow latex

## Carolina™ Formalin Jellyfish

For use in study of anatomy of cnidarians using common, formalin-preserved jellyfish. Carolina™ Formalin Jellyfish is shipped in Carosafe™, Carolina's proprietary shipping and holding fluid.

- Common marine jellyfish - Aurelia
- Class Scyphozoa
- Carosafe™ is odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain form
- 10 per jar
- 7.6-10.1cm (3 to 4 in.)



Cat. No.	Size	Price
S37684*	Formalin Jellyfish	39.00/Ea

## Cnidaria

Use these animal specimens to compare the three classes of *Cnidaria*.

### Sea Anemone (*Metridium*)

- Most common Anthozoan studied
- Only well-expanded specimens are offered
- Available in three sizes in Fisher Science Education™ Bio-Fresh™ solution



### Common Moon Jellyfish (*Aurelia*)

- Aurelia are ciliary feeders in the scyphozoa class
- As they sink, plankton becomes entrapped on the mucus of the subumbrellar surface
- From here, flagella sweep the food into the Aurelia's mouth
- In Fisher Science Education Bio-Fresh solution

Cat. No.	Length (English)	Description	Price
S2502*	3 to 4 in.	Common Jellyfish, <i>Aurelia</i>	53.25/Pk
S1499S*	1.5 to 2 in.	Sea Anemone	51.25/Pk
S1500S*	2+ in.	Sea Anemone	57.00/Pk



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## Fisher Science Education™ Preserved Specimens: Nematoda

Flatworms for dissection.

- A variety of organisms that illustrate different biological phenomena
- Choose from free-living or parasitic flatworms
- In alcohol or Fisher Science Education™ Bio-Fresh™ solution where noted



Cat. No.	Description	Price
S3001*	Ascaris Lumbricoide	26.00/Pk
S5100S*	Annelida Segmented Worm	17.75/Pk
S5101A*	Earthworm, Single Injection	42.75/Pk
S1065SAB*	Earthworm, Plain 8-10 in.	12.50/Pk
S3002*	Nereis Viren	28.25/Pk

## Crayfish

*Cambarus sp.*

One of the most popular arthropod dissection specimens. They are inexpensive and large and their internal organs are easy to observe.

Single-injected specimens have the heart, arteries and gills filled with colored latex. Preserved in formaldehyde.



Cat. No.	Length (English)	Quantity	Injection Type	Size	Price
S4003*	4 to 6 in.	200/CS	Single	Large	17.50/Pk

## Sea Urchin

*Strongylocentrotus purpuratus*

- Excellent for typical urchin morphology study
- In Fisher Science Education™ Bio-Fresh™ solution



Cat. No.	Description	Price
S1185S*	Sea Urchin Purple; Large;	16.50/Pk

### INJECTION KEY

**PLAIN:** Circulatory system not injected with colors

**Single:** Arteries injected with red latex

**Double:** Arteries red, veins blue

**Triple:** Systemic veins injected with yellow latex

## Blue Crab

*Callinectes sp.*



The most highly developed of all the crustacea. A pugnacious predator, the blue crab is called the “soft-shelled crab” when it is collected soon after molting before its new shell has hardened.

Cat. No.	Description	Price
S1126S*	Blue Crab Preserved Specimens	34.75/Pk

## Sea Cucumber

*Cucumaria frondosa*

A bottom-dwelling echinoderm named for its cucumber-like shape, in Fisher Science Education™ Bio-Fresh™. Large: 2 to 4 in. (5 to 10cm).

### ORDERING INFORMATION:

- Sold as Pk of 10, in one-gallon pail



Cat. No.	Description	Price
S1202S*	Sea Cucumber	36.50/Pk

## Carolina™ Formalin Non-Venomous Snake

For use in learning more about reptiles by investigating anatomy of nonvenomous snake. Carolina™ Formalin Non-Venomous Snake is ideal for comparative vertebrate courses.

- Species vary based on availability
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Description	Price
S37648*	Formalin Non-Venomous Snake	30.25/Ea



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\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Carolina™ Carolina™ Formalin Grasshoppers



Carolina™ Formalin Grasshoppers are an excellent introductory specimen for dissecting and studying insect anatomy

- Louisiana Lubber Grasshoppers (Romalea microptera or Brachystoma)
- Perfect introductory dissection specimen
- Large size is perfect for studying specialized external and internal anatomy
- Preserved in formalin
- Shipped 10 per jar
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid which minimizes student and educator exposure to formaldehyde



Cat. No.	Description	Price
S72459*	Carolina™ Formalin Grasshoppers	6.45/Pk

## Carolina™ Formalin Preserved Sheep Pluck, Plain

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Heart with aorta and lungs with trachea are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Price
S28064*	Sheep Pluck Preserved Specimen	17.75/Ea

## Carolina™ Formalin Preserved Sheep Kidney

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Kidneys are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection

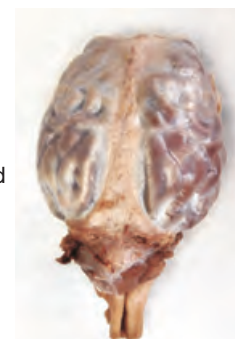


Cat. No.	Description	Price
S28066*	Sheep Kidney Formalin Preserved Specimen	6.15/Ea

## Carolina™ Formalin Preserved Sheep Brain, Dura Mater Intact

Used to study mammalian brain structure.

- Explores general structures representative of mammals
- Connects structure to function
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Price
S28065*	Sheep Brain Formalin Preserved Specimen	21.00/Ea

## Carolina™ Formalin Preserved Sheep Eyes

Explores eye structures representative of mammals.

- Sold in units of 10 and packaged together in vacuum-sealed bag
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde

Cat. No.	Description	Price
S28068*	Sheep Eyes Preserved Specimen	19.00/Pk





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 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Carolina™ Formalin Preserved Sheep Brain, Dura Mater Removed

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed and optic chiasma intact are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags



## Carolina™ Formalin Preserved Sheep Brain, Dura Mater Removed, Single Injection

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Injected arteries aid in studying brainapostrophes circulatory system
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Single color injection: Arterial system injected with red latex
- Individually damp-packed in vacuum-sealed bags



Cat. No.	Description	Price
S28069*	Sheep Brain, Dura Mater Removed, Formalin Preserved Specimen	13.50/Ea

Cat. No.	Description	Price
S28072*	Sheep Brain Formalin Preserved Specimen	27.00/Ea

## Carolina™ Formalin Preserved Sheep Brain, Dura Mater Removed, Hypophysis Intact

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed and hypophysis (pituitary gland) intact to aid in brain study, shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags



## Carolina™ Formalin Preserved Sheep Brain in Cranial Case, Whole Brain

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater, hypophysis, and cranial nerve roots intact, but still in cranial case, are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- With 1/8 to 1/2 inch of bone, which has been cracked in several places to make removal easier
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Price
S28071*	Sheep Brain Formalin Preserved Specimen	14.75/Ea

Cat. No.	Description	Price
S28074*	Sheep Brain in Cranial Case, Formalin Preserved Specimen	17.25/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

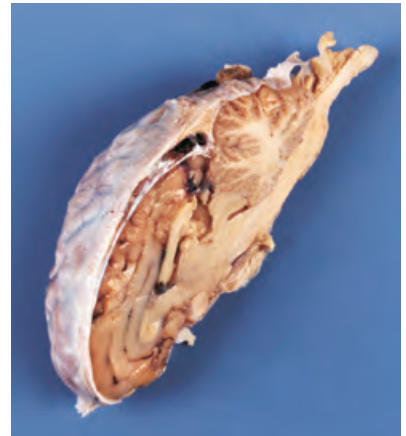
\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Carolina™ Formalin Preserved Sheep Half Brain

Used to study mammalian brain structure

- Similar to human brain
- Sheep brain is shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags



Cat. No.	Description	Price
S28070*	Sheep Half Brain Formalin Preserved Specimen	9.75/Ea

## Carolina™ Formalin Preserved Sheep Heart, Plain

Allows students to explore physiological links between organ systems and identify general structures representative of mammals

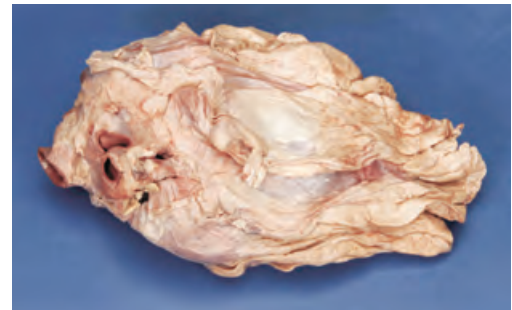
- Heart with base of aorta attached is shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Price
S28067*	Sheep Heart Formalin Preserved Specimen	7.75/Ea

## Carolina™ Formalin Preserved Sheep Heart in Pericardium

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.



- Heart in Pericardium with base of aorta attached is shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection

Cat. No.	Description	Price
S28073*	Sheep Heart in Pericardium Formalin Preserved Specimen	15.25/Ea



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## Carolina™ Formalin Pigs

For use in introducing students to mammalian anatomy. Carolina™ Formalin Pigs do not have well defined Musculature.

- Fetal and/or stillborn pigs
- Mainly used in basic high school and college biology classes
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- One per bag

Cat. No.	Injection Type	Length (English)	Length (Metric)	Price
S37664*	Plain	14+ in.	35.5+ cm	27.25/Ea
S37665*	Single	14+ in.	35.5+ cm	26.50/Ea
S37666*	Double	14+ in.	35.5+ cm	32.00/Ea
S37667*	Plain	11 to 14 in.	27.9 to 35.5cm	24.75/Ea
S37668*	Single	11 to 14 in.	27.9 to 35.5cm	26.50/Ea
S37670*	Plain	7 to 11 in.	17.7 to 27.9cm	31.25/Ea
S37671*	Single	7 to 11 in.	17.7 to 27.9cm	26.00/Ea
S37673*	Plain	5 to 7 in.	12.7 to 17.7cm	21.25/Ea
S37669*	Double	11 to 14 in.	27.9 to 35.5cm	31.00/Ea



## Carolina™ Carolina™ Formalin Pig Eyes



Carolina™ Formalin Pig Eyes are for use in exploring the anatomy of mammalian eye. Carolina™ Formalin Pig Eyes are similar to human eye.



- Easy dissection and examination of the mammalian eye as pig eyes are similar to human eye.
- Smaller than cow eyes and have less muscle and fatty tissue attached
- Preserved in formalin
- Shipped 10 per bag
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid which minimizes student and educator exposure to formaldehyde

Cat. No.	Description	Price
S72455*	Carolina™ Formalin Pig Eyes	17.00/Pk

## Carolina™ Formalin Pig Kidney

For use in enhancing study of urinary system. Carolina™ Formalin Pig Kidney is similar to human kidney, only larger.



- Mammalian kidney
- For studying structure and function of kidney
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde

Cat. No.	Description	Price
S37675*	Formalin Pig Kidney	7.75/Ea



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# Pigs

*Sus scrofa*

- Ideally suited for high school and freshman college courses where the emphasis is on basic internal anatomy
- Perfect for the beginning biology class because of its cost, availability, size and easy dissection
- Artiodactyla order is characterized by having an even number of toes
- Fisher Science Education™ Bio-Fresh™ specimens are fixed in formaldehyde, rinsed and packaged in Bio-Fresh solution
- Fisher-Free™ specimens are 100% formaldehyde free — fixed and held in a nontoxic solution

**Note:** Because it is a fetal specimen, musculature is not fully toned for an in-depth dissection.

**ORDERING INFORMATION:**

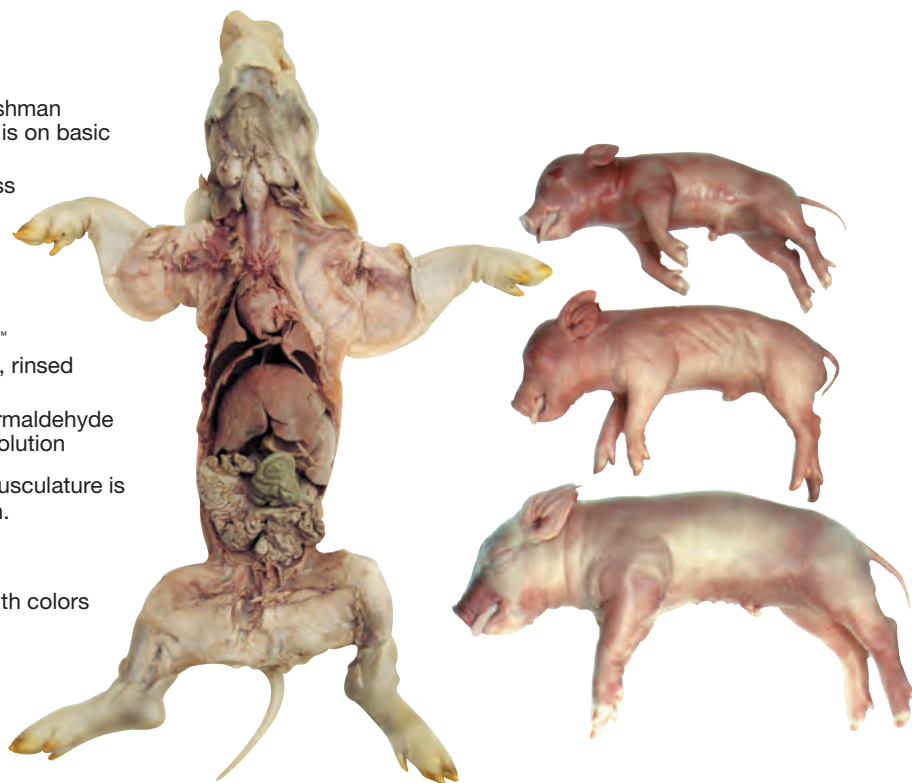
**INJECTION KEY**

**Plain:** Circulatory system not injected with colors

**Single:** Arteries injected with red latex

**Double:** Arteries red, veins blue

**Triple:** Arteries red, veins blue and hepatic portal veins yellow



## Pigs, Biofresh™

Cat. No.	Injection Type	Length (English)	Price
S1580S*	Plain	5 to 7 in.	83.00/Pk
S1588S*	Plain	7 to 11 in.	28.75/Ea
S1588S10*	Plain	7 to 11 in.	259.00/Pk
S1588VS*	Plain	7 to 11 in.	269.00/Cs
S1590S*	Single	7 to 11 in.	25.50/Ea
S1590S10*	Single	7 to 11 in.	290.00/Pk
S1590VS*	Single	7 to 11 in.	274.00/Pk
S1592S*	Double	7 to 11 in.	29.00/Ea
S1592S10*	Double	7 to 11 in.	310.00/Pk
S1592VS*	Double	7 to 11 in.	310.00/Cs
S1594S*	Plain	11 to 13 in.	20.75/Ea
S1594S10*	Plain	11 to 13 in.	256.00/Pk
S1594VS*	Plain	11 to 13 in.	247.00/Pk
S1596S*	Single	11 to 13 in.	23.25/Ea
S1596S10*	Single	11 to 13 in.	272.00/Pk
S1596VS*	Single	11 to 13 in.	242.00/Pk
S1598S*	Double	11 to 13 in.	25.75/Ea
S1598S10*	Double	11 to 13 in.	274.00/Pk
S1598VS*	Double	11 to 13 in.	274.00/Pk
S1190S*	Plain	13+ in.	22.00/Ea
S1194S*	Single	13+ in.	23.25/Ea
S1599S*	Double	13+ in.	26.75/Ea
S1190S10*	Plain	14+ in.	265.00/Ea
S1190VS*	Plain	14+ in.	247.00/Pk
S1599S10*	Double	14+ in.	283.00/Pk
S1599VS*	Double	14+ in.	278.00/Pk

## Pigs, Fisher-Free™

Cat. No.	Injection Type	Length (English)	Price
S1236S*	Plain	7 to 11 in.	25.50/Ea
S1238S*	Double	7 to 11 in.	29.50/Ea
S1233S*	Plain	11 to 13 in.	25.50/Ea
S1234S*	Single	11 to 13 in.	26.75/Ea
S1235S*	Double	11 to 13 in.	29.00/Ea
S1230S*	Plain	13+ in.	26.50/Ea
S1232S*	Double	13+ in.	28.75/Ea

## Pig Kidney

Ideal for showing organ structure.

Show kidney structure by dissecting these superior specimens. Packed in formaldehyde.



Cat. No.	Injection Type	Price
S1452S*	Plain	4.35/Ea
S1456S*	Single	6.95/Ea
S9208*	Double	9.50/Ea
S9210*	Triple	11.50/Ea


**INJECTION KEY**

**PLAIN:** Circulatory system not injected with colors

**Single:** Arteries injected with red latex

**Double:** Arteries red, veins blue

**Triple:** Systemic veins injected with yellow latex



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## Pig Organs

Premium quality organs.



Choose from our selection of pig organs for your anatomy classes.

### ORDERING INFORMATION:

All are premium quality and are Packed in FisherPak™ vacuum Pks, in Fisher Science Education™ Bio-Fresh™.

Cat. No.	Description	Quantity	Price
S1476S*	Pig Uterus	3/Cs	11.00/Ea
S9204S*	Pig Heart	Each	8.60/Ea
S9254*	Pig Heart, Pericardium	Each	17.50/Ea
S9255*	Pig Eyes	10 Pk	14.00/Pk
S9257S*	Pig Ovary	10/Cs	2.65/Pk

## Carolina™ Formalin Cow Eyes

For use in exploring anatomy of mammalian eye. Carolina™ Formalin Cow Eyes are similar to human eye



- Large size allows easy dissection and examination
- Preserved in formalin
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of forma

Cat. No.	Description	Price
S37717	Formalin Cow Eyes	42.50/Pk

## Carolina™ Formalin Cow Heart

For use in studying anatomy of mammalian heart. Carolina™ Formalin Cow Heart is ideal for studying structure and function of heart.

- Four-chambered mammalian heart
- Like human heart, only much larger
- Large size allows students to easily study anatomy
- Easily trace blood flow
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fl

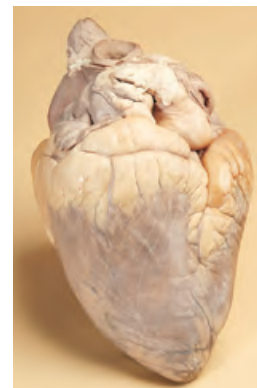


Cat. No.	Description	Price
S37676*	Formalin Cow Heart	50.75/Ea


## Cow Organs

Larger specimens for easier dissection.

- Organs are of excellent quality
- Large size makes them easy for students to dissect
- Vacuum Packed in Fisher Science Education™ Bio-Fresh™



Cat. No.	Description	Price
S8202S*	Cow Eye	30.00/Pk
S8207S	Pregnant Cow Uterus	55.00/Ea
S8203S*	Beef Heart	35.50/Ea
S1711S*	Beef Spinal Cord	7.15/Ea
S1715S*	Beef Brain	64.00/Ea
S1722S*	Bull Testicle	14.75/Ea

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 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Carolina™ Formalin Bullfrogs

For use in introducing students to vertebrate anatomy. Carolina™ Formalin Bullfrogs are ideal for studying amphibian anatomy, adaptations and body systems.

- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- INJECTIONS: Plain: no color injection; Double: red arteries, blue hepatic
- Length: 5+ in. (12.7cm)



Cat. No.	Quantity	Price
S37638*	1/bag	19.25/Ea
S37707*	5/bag	95.00/Ea

## Bullfrogs

Rana catesbeiana

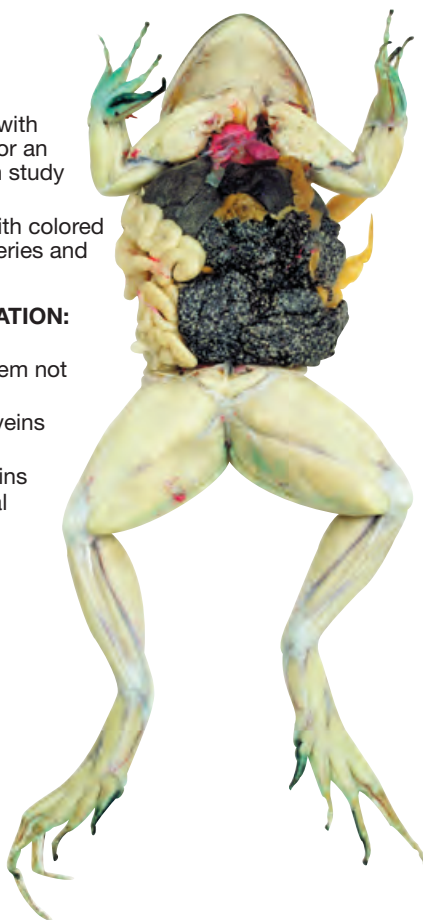
- Provides students with a good specimen for an in-depth dissection study of amphibians
- Animals injected with colored latex to identify arteries and veins are available

### ORDERING INFORMATION: INJECTION KEY

**Plain:** Circulatory system not injected with colors.

**Double:** Arteries red, veins blue.

**Triple:** Arteries red, veins blue and hepatic portal veins yellow.



## Bullfrogs, Biofresh™

Cat. No.	Injection Type	Length (English)	Length (Metric)	Price
S1700*	Plain	4 to 5 in.	10.16 to 12.7cm	8.95/Ea
S1702*	Plain	5 to 6 in.	12.7 to 15.24cm	17.25/Ea
S1705*	Plain	6 to 7 in.	15.24 to 17.78cm	18.25/Ea
S170510*	Plain	6 to 7 in.	15.24 to 17.78cm	188.00/Ea
S170550*	Plain	6 to 7 in.	15.24 to 17.78cm	857.00/Pk
S1354S*	Single	4 to 5 in.	10.16 to 12.7cm	11.00/Ea
S1338S*	Single	5 to 6 in.	12.7 to 15.24cm	14.75/Ea
S1322S*	Single	6 to 7 in.	15.24 to 17.78cm	20.50/Ea
S1704*	Double	5 to 6 in.	12.7 to 15.24cm	19.50/Ea
S1701*	Double	4 to 5 in.	10.16 to 12.7cm	11.25/Ea
S1707*	Double	6 to 7 in.	15.24 to 17.78cm	23.50/Ea
S170710*	Double	6 to 7 in.	15.24 to 17.78cm	173.00/Ea
S170750*	Double	6 to 7 in.	15.24 to 17.78cm	844.00/Ea

## Bullfrogs, Fisher-Free™

Cat. No.	Injection Type	Length (English)	Length (Metric)	Price
S0810S	Plain	5 to 6 in.	12.7 to 15.24cm	13.75/Ea
S0800S	Plain	6 to 7 in.	15.24 to 17.78cm	24.00/Ea
S0814S	Double	5 to 6 in.	12.7 to 15.24cm	20.75/Ea
S0804S	Double	6 to 7 in.	15.24 to 17.78cm	20.00/Ea
S0816S	Triple	5 to 6 in.	12.7 to 15.24cm	19.00/Ea

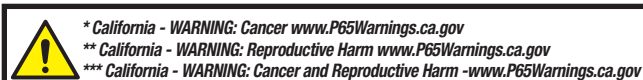
### INJECTION KEY

**PLAIN:** Circulatory system not injected with colors

**Single:** Arteries injected with red latex

**Double:** Arteries red, veins blue

**Triple:** Systemic veins injected with yellow latex



## Carolina™ Formalin Frogs

For use in introducing students to vertebrate anatomy. Carolina™ Formalin Frogs are grass frogs and are ideal for study of body systems.

- No need for scalpel – students only need dissecting scissors
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Injection Type	Length (English)	Quantity	Price
S37646*	Plain	3 to 4 in.	1/bag	5.25/Ea
S37715*	Plain	3 to 4 in.	10/bag	47.50/Ea
S37643*	Plain	4 to 5 in.	1/bag	8.75/Ea
S37644*	Single	4 to 5 in.	1/bag	9.25/Ea
S37712*	Plain	4 to 5 in.	10/bag	81.00/Ea
S37713*	Single	4 to 5 in.	10/bag	92.00/Ea
S37714*	Double	4 to 5 in.	10/bag	107.00/Ea
S37640*	Plain	5+ in.	1/bag	11.75/Ea
S37642*	Double	5+ in.	1/bag	14.00/Ea
S37709*	Plain	5+ in.	10/bag	299.00/Ea

## Frogs

*Rana forreri*

### ORDERING INFORMATION:

#### INJECTION KEY

**Plain:** Circulatory system not injected with colors

**Single:** Arteries injected with red latex

**Double:** Arteries red, veins blue

**Triple:** Arteries red, veins blue and hepatic portal veins yellow

### Frogs, Bio-Fresh™

Cat. No.	Injection Type	Length (English)	Quantity	Price
S1601*	Plain	3 to 3.5 in.	10/Pk	33.25/Pk
S160150*	Plain	3 to 3.5 in.	50/Pail	173.00/Ea
S1635S*	Plain	3.5 to 4 in.	10/Pk	34.00/Pk
S1635S50*	Plain	3.5 to 4 in.	50/Pail	178.00/Ea
S1643S*	Double	3.5 to 4 in.	10/Pk	51.25/Pk
S1643S100*	Double	3.5 to 4 in.	100/Pail	528.00/Ea
S1643S50*	Double	3.5 to 4 in.	50/Pail	264.00/Ea
S1619S*	Plain	4 to 4.5 in.	10/Pk	57.25/Pk
S1619S10*	Plain	4 to 4.5 in.	10/Pail	60.00/Ea
S1619S50*	Plain	4 to 4.5 in.	50/Pail	285.00/Ea
S1623S*	Single	4 to 4.5 in.	10/Pk	63.25/Pk
S1672S*	Double	4 to 4.5 in.	10/Pk	73.00/Pk
S1672S10*	Double	4 to 4.5 in.	10/Pail	78.00/Ea
S1672S50*	Double	4 to 4.5 in.	50/Pail	380.00/Ea
S1613S*	Triple	4 to 4.5 in.	10/Pk	57.50/Pk
S1619S100*	Plain	4.4 to 5 in.	100/Pail	569.00/Ea
S1631S*	Plain	4.5 to 5.5 in.	10/Pk	83.00/Pk
S1631S50*	Plain	4.5 to 5.5 in.	50/Pail	470.00/Ea
S1617S*	Single	4.5 to 5.5 in.	10/Pk	99.00/Pk
S1611S50*	Double	4.5 to 5.5 in.	50/Pail	534.00/Ea
S1611S*	Double	4.5 to 5.5 in.	10/Pk†	104.00/Pk
S1611S10*	Double	4.5 to 5.5 in.	10/Pail	108.00/Ea
S1615S*	Triple	4.5 to 5.5 in.	10/Pk	113.00/Pk



### Frogs, Fisher-Free™

Cat. No.	Injection Type	Length (English)	Price
S0901S	Plain	4 to 4.5 in.	89.00/Pk
S0902S	Single	4 to 4.5 in.	96.00/Pk
S0904S	Double	4 to 4.5 in.	105.00/Pk
S0906S	Triple	4 to 4.5 in.	112.00/Pk
S0930S	Plain	4.5 to 5.5 in.	136.00/Pk
S0934S	Double	4.5 to 5.5 in.	157.00/Pk
S0936S	Triple	4.5 to 5.5 in.	120.00/Pk



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Carolina™ Formalin Mink

Used in lab experiments which ensures safe and non-toxic environment. Carolina™ Formalin Mink are packaged in waterproof plastic bags.

- Ranch-raised, formalin-preserved mink
- 15 in. in length
- Waterproof student name tags are furnished free with each mink

### ORDERING INFORMATION:

This item is sold and shipped to schools and businesses only. Not available to individuals or residential addresses



Cat. No.	Injection Type	Price
S37304*	Plain	15.50/Ea
S37305*	Double	19.25/Ea
S37306*	Triple	21.00/Ea

## Carolina™ Formalin Cats

For use in advanced biology, anatomy and physiology classes. Carolina™ Formalin Cats are ideal dissection specimens.



- Felis catus
- Similar to human anatomy
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde

### INJECTION KEY

- **Plain:** Circulatory system not injected with colors
- **Single:** Arteries injected with red latex
- **Triple:** Arteries red, veins blue and hepatic portal veins yellow

Cat. No.	Injection Type	Length (English)	Price
S37652ND*	Single	18+ in.	79.00/Ea
S37653ND*	Double	18+ in.	87.00/Ea
S37654ND*	Triple	18+ in.	98.00/Ea
S37655ND*	Plain	14 to 18 in.	73.00/Ea

## Carolina™ Formalin Rabbits



Carolina™ Formalin Rabbits facilitates the study and dissection of mammalian anatomy



- Can be used as a preserved cat alternative with minimal differences
- Makes it easy to study musculature and internal anatomy
- Mature specimens
- Preserved in formalin
- Shipped 1 per bag
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid which minimizes student and educator exposure to formaldehyde
- Length: At least 14 in.
- Vacuum-sealed, 1 per bag

Cat. No.	Injection Type	Price
S72456*	Plain	50.25/Ea
S72457*	Double	55.50/Ea
S72458*	Triple	58.50/Ea

### INJECTION KEY

- PLAIN:** Circulatory system not injected with colors
- Single:** Arteries injected with red latex
- Double:** Arteries red, veins blue
- Triple:** Systemic veins injected with yellow latex

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Rabbits, Bio-Fresh™

*Oryctolagus cuniculus*.

Excellent for herbivore vs. carnivore comparative studies. Excellent herbivore specimen for study. We recommend dissecting at least one rabbit along with your normal mink study.



Strongest comparisons between the rabbit and cat anatomy exist within:

- Intestinal systems
- Eye position and visual acuity
- Dentition
- Forearm musculature and functionality
- Each rabbit comes with a tag and label identifying the sex

### ORDERING INFORMATION:

#### INJECTION KEY:

**Plain:** Circulatory system not injected with colors

**Double:** Arteries red, veins blue

**Triple:** Arteries red, veins blue and hepatic portal veins yellow

## Rabbits, Biofresh™

Cat. No.	Injection Type	Description	Price
S1057S*	Plain	Skinned Rabbit	52.00/Ea
S1853S*	Plain	Fur Rabbit	57.25/Ea
S1059S*	Double	Skinned Rabbit	64.00/Ea
S1851S*	Double	Fur Rabbit	60.00/Ea
S1854S*	Double	Fur Rabbit, Pregnant	87.00/Ea
S1852S*	Triple	Fur Rabbit	62.75/Ea

## Rabbits, Fisher-Free™

Cat. No.	Injection Type	Description	Price
S1070S	Plain	Fur Rabbit	72.75/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

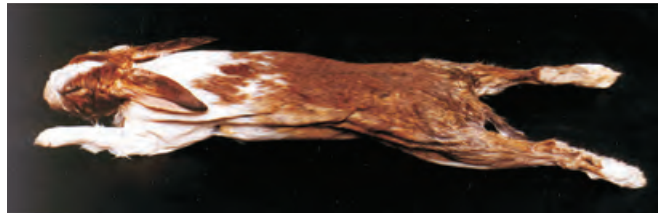
\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Fisher Science Education™ Preserved Specimens: Rabbit Triple Skinned

Skinned specimens save valuable classroom time and students can start learning muscles immediately.

- Formalin fixed rabbit goes through a series of non-formaldehyde washes and is shipped in a vacuum sealed mylar-coated bag
- Triple injected rabbits have red latex injected in arteries, blue latex injected in veins and yellow latex injected in the hepatic portal system
- Rabbits provide a lower cost, readily available alternative to cats and come in a 50:50 sex ratio



Cat. No.	Description	Price
S1060S	Skinned; Triple Injection	66.75/Ea

## Carolina™ Formalin Rats

For use in lessons on mammalian anatomy. Carolina™ Formalin Rats have well-developed musculature and reproductive system.

- Mature specimen
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- Length: 7+ in. (17.7cm)



### ORDERING INFORMATION:

#### INJECTION KEY

**Plain:** Circulatory system not injected with colors.

**Single:** Arteries injected with red latex.

**Double:** Arteries red, veins blue.

**Triple:** Arteries red, veins blue and hepatic portal veins yellow.

Cat. No.	Injection Type	Price
S37659*	Plain	11.75/Ea
S37660*	Single	15.75/Ea
S37661*	Double	17.25/Ea
S37662*	Double; Pregnant	23.75/Ea

## Rats, Bio-Fresh™

*Rattus norvegicus*

Rats are similar in price to fetal pigs, but have adult musculature. If you desire a mammal specimen that is inexpensive, fully muscled, and has well-developed genitalia, the rat is the specimen of choice. Pregnant rats are also available.



### Rats, Biofresh™

Cat. No.	Injection Type	Length (English)	Description	Price
S1833S*	Double	Pregnant	Pregnant Rat	20.00/Ea
S1154S*	Triple	Pregnant	Pregnant Rat	20.25/Ea
S1825S*	Plain	7 to 9 in.	Rat	11.00/Ea
S1825S10*	Plain	7 to 9 in.	Rat	131.00/Ea
S1825VS*	Plain	7 to 9 in.	Rat	123.00/Ea
S1826S10*	Single	7 to 9 in.	Rat	133.00/Ea
S1826VS*	Single	7 to 9 in.	Rat	138.00/Ea
S1827S*	Double	7 to 9 in.	Rat	16.00/Ea
S1827S10*	Double	7 to 9 in.	Rat	142.00/Ea
S1827VS*	Double	7 to 9 in.	Rat	142.00/Pk
S1828S*	Triple	7 to 9 in.	Rattus White	18.00/Ea

### Rats, Fisher-Free™

Cat. No.	Injection Type	Description	Price
S1178S	Plain	Rat	15.50/Ea
S1179S	Single	Rat	16.75/Ea
S1180S	Double	Rat	19.00/Ea
S1182S	Double	Pregnant Rat	20.50/Ea
S1181S	Triple	Rat	14.25/Ea

## Carolina™ Formalin Pigeon

For use in exploring avian anatomy, Carolina™ Formalin Pigeon is ideal for comparative vertebrate courses.



## Pigeons

*Columba sp.*



Large adult pigeon specimens provide an in-depth view of several traits that all birds share:

- Skin with feathers
- Wings
- Two legs
- Four-chambered heart
- Horny beak

- Family Columbidae
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde

Cat. No.	Description	Price
S37649*	Formalin Pigeon	17.50/Ea

Cat. No.	Injection Type	Preservative	Quantity	Price
S2402*	Plain	Fisher-Free™	30/Cs	15.50/Ea
S2402VS*	Plain	Fisher-Free™	10 Pk	142.00/Ea
S2403S*	Double	Fisher-Free™	Each	16.00/Ea

### INJECTION KEY

**PLAIN:** Circulatory system not injected with colors  
**Single:** Arteries injected with red latex  
**Double:** Arteries red, veins blue  
**Triple:** Systemic veins injected with yellow latex

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 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Carolina™ Preserved Mixed Fish Set

For use in introduction to fish anatomy and taxonomy. Carolina™ Preserved Mixed Fish Set includes 8 specimens from 3 major fish groups: the jawless fish, cartilaginous fish, and bony fish.

- Students explore internal and external anatomy of 8 specimens from 3 major fish groups: jawless, cartilaginous, and bony fishes
- Compare and contrast unique anatomical characteristics such as scales, fins, and respiratory and feeding structure



Cat. No.	Description	Price
S37723*	Preserved Mixed Fish Set	92.00/Ea

## Carolina™ Formalin Preserved Sheep Organ Set with Manual

Allows students to identify physiological links between organ systems.



- Explores general structures representative of mammals
- Connects structure to function
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Simple dissection guides are provided for each organ

Cat. No.	Description	Price
S28075*	Sheep Organ Set with Manual	31.00/Ea

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Mini Dissection Guide to the Frog

Easy-to-use guide assists students in dissections.

Our 18-page illustrated guide is geared for high school, but can also be helpful to college-level students. Includes 14 illustrations to prepare students before the dissection begins.



Cat. No.	Description	Price
S4101S*	Dissection Guide To Frog	11.25/Ea

## Dissection Guide to the Fetal Pig

Covers the basics of pig anatomy.

- 16 pages of in-depth text
- 11 detailed illustrations take the student through the dissection



Cat. No.	Description	Price
S4151S	Dissection Guide To The Pig	11.25/Ea

## Mammalian Organ Dissection Guides

Ideal tools for individual student use.

These guides enable students to do dissections independently. They provide clear directions for work on the heart, brain, kidney or eye.



Cat. No.	Description	Price
S4171S	Mammalian Heart Dissection Guide	11.75/Ea

## Carolina™ Wetting Solution

For use as humectant and mold inhibitor for preserved specimens. Carolina™ Wetting Solution helps maintain moisture and reduce dehydration.

- Helps keep tissue pliable and easy to work with, especially over extended period of time
- Includes mold inhibitor

**⚠️ ALERTS:**  
 Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000



Cat. No.	Description	Price
S37621	1 gal. (3.7L) Wetting Solution	52.75/Ea



## Carolina™ Carosafe™ Holding Solution

For use in formalin-preserved specimens. Carolina™ Carosafe™ Holding Solution is formaldehyde-free and cannot be used to fix specimens.

- Carosafe preservative and holding solution for biological specimens contains no formaldehyde and is not a tissue fixative
- This produces a formalin-preserved specimen that, when dissected, minimizes formaldehyde exposure
- 4L

### ORDERING INFORMATION:

- For use in science education laboratories – no certificate of analysis is available
- Ready-to-use; do not dilute
- Health Risk: 1
- Flammability: 1
- Reactivity: 0

**⚠ ALERTS:**  
Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000



Cat. No.	Description	Price
S37678	Carosafe Holding Solution	44.50/Ea

## Dissection Supplies

### Precision Dissecton Kit with Goggles

Ideal for biology classes or field use

- Semi-hard, slotted plastic case
- Autoclavable
- Fine quality tools
- Easy to carry
- Individual sections for each tool
- Avoids breakage of fragile tools
- Safer to use for students and teachers
- Meets ANSI Z87.1-2003 and ANSI + High Impact Standards
- CUL Certified to meet CAN/CSA Z94.3



**NEW**

#### S72132 Includes:

- Dissecting Mall Probe Chrome Plated (P/No. : 36)
- Ruler, 6in (P/No: 30)
- Student dissecting forceps, 4.5in. (P/No: 15 or 17C)
- Dissecting Iris scissors, 4.5in (P/No: 9)
- Dissecting scalpel with screw-lock blade (P/No: 21)
- Glass Dropper (P/No: 39)
- Dissecting Needle Straight plastic handle (P/No: 31)
- Dissecting T-Pins six-pcs (P/No: 42)
- See-thru plastic case with locks – Autoclavable (P/No: 505P)
- Protective adjustable wrap-around eyewear

#### S72129, S72130, S72131 add:

- Powder-free, latex-free blue nitrile examination gloves
- CFIA and FDA approved for food handling

#### S72124 thru S72128 add:

- Powder-free, latex-free blue nitrile examination gloves
- CFIA and FDA approved for food handling
- Unisex Lab Coat with higher cotton content for more breathability, moisture absorbency and comfort
- Full-length (42-inch) with 3 patch pockets only, or 2 additional inside patch pockets
- Soft and comfortable fabric in 40% Polyester / 60% Cotton

Cat. No.	Description	Price
S72132	Precision Dissection Kit with Goggles	15.00/Ea
S72129	Small Gloves	25.00/Ea
S72130	Medium Gloves	25.00/Ea
S72131	Large Gloves	25.00/Ea
S72124	With Small Gloves, XS Lab Coat	50.00/Ea
S72125	With Small Gloves; S Lab Coat	50.00/Ea
S72126	With Medium Gloves; Medium Lab Coat	50.00/Ea
S72127	With Large Gloves; Large Lab Coat	50.00/Ea
S72128	With X-Large Gloves; X-Large Lab Coat	50.00/Ea

## Classroom Dissection Set

An ideal, cost-saving classroom dissection set for 20 or 40 students.

- Includes 20 each of the seven dissection tools for a 20-student class
- Can also be used for 40 students working in pairs

### ORDERING INFORMATION:

Dimensions: 15 x 13 x 2.25 in. (38 x 33 x 5.7cm)

### INCLUDES:

- 20 student scissors, 4.5 in.
- 20 student forceps, 4.5 in.
- 20 scalpel handles
- 100 scalpel blades
- 20 plastic, straight teasing needles
- 20 plastic, angular teasing needles
- 20 glass droppers
- 20 plastic rulers, 6 in.
- 20 Pks of six T-Pins (or a bulk box of 300)
- One six-compartment tray for instruments



Cat. No.	Description	Price
S07040	Classroom Dissection Set with Tray	98.00/Ea

## Student Dissecting Kits

Complete dissection kits for use in the student lab.



### Kit with Black Vinyl Case:

- Dissecting scissors, 4.5 in.
- Dissecting forceps, 4.5 in. chrome-plated
- Dissecting scalpel, chrome-plated
- Two dissecting teasing needles (one angular, one straight) with plastic handles
- Glass dropper with rubber bulb
- Plastic ruler, 6 in.

### Kit with See-Through Plastic Case:

- Dissecting scissors, 4.5 in.
- Dissecting forceps, 4.5 in. chrome-plated
- Dissecting scalpel, chrome-plated
- Two dissecting teasing needles (one angular, one straight) with plastic handles
- Plastic ruler, 6 in.

Cat. No.	Description	Price
S06831	With Vinyl Case	9.95/Ea
S06843	With Plastic Case	10.75/Ea

## Teacher's Dissecting Kit

Complete kit in vinyl case for the teacher.



### INCLUDES:

- Dissecting scissors, 4.5 in.
- Dissecting scissors, 5.5 in. with one sharp and other point blunt
- Two forceps, 4.5 in. (one curved fine point with guide pin and one fine point)
- Two teasing needles (one bent and one straight) with metal chuck brass-chromed
- Replacement needles (straight and angular)
- Scalpel handle No. 4
- Replaceable blades for handle No. 4, six pieces
- Glass dropper
- Ruler, 6 in.
- Double-fold vinyl case

Cat. No.	Description	Price
S06835	Teachers Dissecting Kit	17.00/Ea

## Eisco Dissection Sets

Stainless steel instruments in case

### Economy Set:

- 5 in. Scissors
- 4.25 in. Forceps with serrated tips
- 5 in. wooden handled needle
- 5 in. wooden handled curved needle
- Nos.B.P. Handle with Blade 1

### Premium Set:

- Scissors
- Forceps
- Seeker
- Scalpel Handle and Blade
- Needle with Wooden Handle



### Advanced Set:

- 8 in. x 5 in. x 1 in. leather case
- 4.5 in. Forceps
- Bone Cutter
- 5 in. Forceps
- 4.5 in. Curved Forceps

Cat. No.	Description	Price
<b>S14004</b>	7 Piece Dissecting Set	8.50/Ea
<b>S14005</b>	7 Piece Dissecting Set	19.75/Ea
<b>S23633</b>	Advanced Dissecting Kit	30.75/Ea

## Dissecting Instrument Tray

Makes organizing instruments a snap.



- This handy five-compartment tray accommodates your instruments according to size and type for easy sorting
- In addition, open-face design lets instruments quickly air-dry after cleaning, eliminating mold growth

Cat. No.	Description	Price
<b>S17429</b>	Dissecting Instrument Tray; White	20.50/Ea

## Large Dissection Tray with Pad

Unbreakable, lightweight trays with pads clean up easily.

Designed for dissecting cats, rabbits, sharks, mink and other animals. Tray is molded of heavy-duty polyethylene for strength, is virtually unbreakable with superb chemical resistance and stacks for storage.



- Nonskid bottom prevents shifting
- Each tray holds a 10 x 23.2 in. (25 x 58cm) Flex-Pad (included) — no wax, no mess
- Dimensions: 16.4 x 30.4 in. (41 x 76cm)

Shipping weight: 4 lb. (1.8kg)

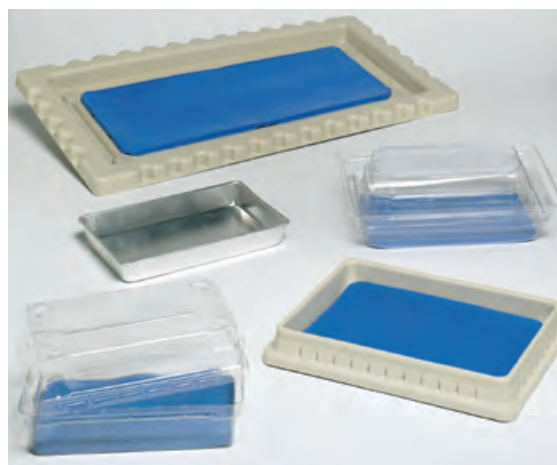
Cat. No.	Description	Price
<b>S17416</b>	Large Dissection Tray with Pad	80.00/Ea

## Dissection Pans and Pads

Keep specimens looking fresh between dissection periods.

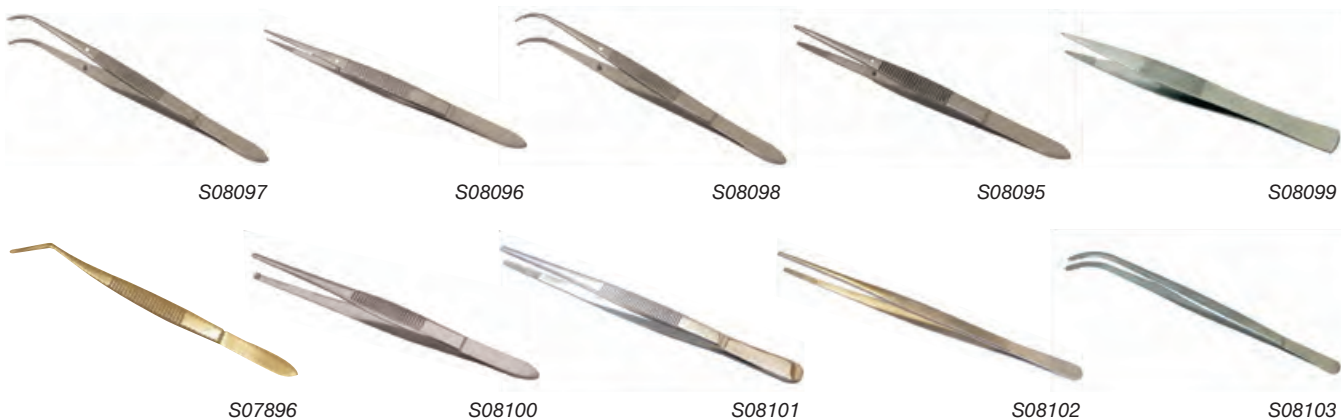
- High-density polyethylene (HDPE) pans offer tight-sealing lids for durability and easy cleanup
- Each is available with Flex-Pads — odorless vinyl pads that are machine washable and reusable
- Flex-Pads replace wax for faster setup and cleanup

Cat. No.	Material	Type	Includes	Price
<b>S17468</b>	HDPE, Vinyl	Standard Pan	Flex-Pad and Cover	17.50/Ea
<b>S17469</b>	HDPE, Vinyl	Standard Pan	Flex-Pad	13.75/Ea
<b>S17471</b>	HDPE, Vinyl	Deluxe Pan	Flex-Pad and Cover	24.75/Ea
<b>S17472</b>	HDPE, Vinyl	Deluxe Pan	Flex-Pad	20.00/Ea
<b>S17427</b>	Vinyl	Deluxe pan with Flex-pad and cover	Flex-Pad and Cover	17.75/Pk





## Dissection Tools



## Forceps

• Stainless steel except for S08099, which is chrome-plated steel

Description	Length	Cat. No.	Price
Dissecting forceps; curved medium points; with guide pin	11.4cm (4.5 in.)	<b>S08097</b>	2.05/Ea
Dissecting forceps; straight, fine, serrated points; with guide pin	11.4cm (4.5 in.)	<b>S08096</b>	2.05/Ea
Dissecting forceps; curved fine points; with guide pin	11.4cm (4.5 in.)	<b>S08098</b>	2.05/Ea
Dissecting forceps; straight, medium, serrated points; with guide pin	11.4cm (4.5 in.)	<b>S08095</b>	2.05/Ea
Economy forceps; straight, fine, serrated points; with knurled handles; chrome-plated steel	11.4cm (4.5 in.)	<b>S08099</b>	1.75/Ea
Insect pinning forceps; angled fine points	11.4cm (4.5 in.)	<b>S07896</b>	5.80/Ea
Tissue forceps; with special teeth for gripping tissue	12cm (5.5 in.)	<b>S08100</b>	2.60/Ea
Specimen forceps; with serrated points and knurled handles	15.24cm (6 in.)	<b>S08101</b>	2.40/Ea
Specimen forceps; straight serrated points; with knurled handles	25.4cm (10 in.)	<b>S08102</b>	6.95/Ea
Specimen forceps; curved serrated points; with knurled handles	25.4cm (10 in.)	<b>S08103</b>	5.95/Ea

## Needles



S07894



S07895

Description	Cat. No.	Price
Teasing needles; straight tips and wooden handles; Pk of 12	<b>S07894</b>	2.95/Pk
Teasing needles; bent tips and wooden handles; Pk of 12	<b>S07895</b>	3.15/Pk



S08110



S08107



S08106

## Probes, Hooks and Section Lifters

Description	Cat. No.	Price
Angular probe; 15.2cm; one end sharp point, other end angular point	<b>S08110</b>	2.05/Ea
Hubber probe; 15.2cm; one end angular point, other end chisel-like; chrome-plated stainless steel	<b>S08107</b>	2.00/Ea
Mall probe, 15.2cm; one end angular point; chrome-plated stainless steel	<b>S08106</b>	2.00/Ea

Contd. on the next page.

## Dissection Tools Contd.



S08113



S07898



S08112



S08111

## Scalpels and Knives

Description	Cat. No.	Price
Cartilage knife; surgical stainless steel; razor sharp blade; serrated handle; 5cm blade	<b>S08113</b>	3.30/Ea
Scalpel; chrome-plated steel; with screw lock; No. 22 blade	<b>S07898</b>	3.60/Ea
Scalpel; surgical stainless steel; razor sharp blade; brushed finish; 3.8cm blade	<b>S08112</b>	3.25/Ea
Student scalpel; chrome-plated steel; 3.8cm blade	<b>S08111</b>	2.00/Ea



S08115



S08116



S08117



S08118



S08119



S08121



S08122



S08123

## Scalpel Handles and Blades

- Handles made with stainless steel; slip lock design
- Blades made of carbon steel

Description	Cat. No.	Price
Handle; No. 3	<b>S08115</b>	2.55/Ea
Handle; No. 4	<b>S08116</b>	2.00/Ea
Blade; No. 10	<b>S08117</b>	4.00/Pk
Blade; No. 11	<b>S08118</b>	4.25/Pk
Blade; No. 12	<b>S08119</b>	4.25/Pk
Blade; No. 20	<b>S08121</b>	4.25/Pk
Blade; No. 21	<b>S08122</b>	4.10/Pk
Blade; No. 22	<b>S08123</b>	4.75/Pk

Contd. on the next page.

Dissection Tools Contd.



S08089



S07897



S08088



S08094



S08090



S08091



S08092



S08093



S08105

## Scissors, Shears and Bone Cutters

- Stainless steel

Description	Length	Cat. No.	Price
Dissecting scissors for students; two sharp points	11.4cm (4.5 in.)	<b>S08089</b>	3.05/Ea
Iris scissors; curved fine points	11.4cm (4.5 in.)	<b>S07897</b>	4.00/Ea
Iris scissors; straight fine points	11.4cm (4.5 in.)	<b>S08088</b>	3.05/Ea
Mayo scissors; two semi-blunt points	14cm (5.5 in.)	<b>S08094</b>	4.10/Ea
Operating scissors; one point sharp, one point blunt	14cm (5.5 in.)	<b>S08090</b>	4.10/Ea
Operating scissors; one point sharp, one point blunt	16.5cm (6.5 in.)	<b>S08091</b>	5.25/Ea
Operating scissors; two sharp points	14cm (5.5 in.)	<b>S08092</b>	4.10/Ea
Operating scissors; two sharp points	16.5cm (6.5 in.)	<b>S08093</b>	5.25/Ea
Bone cutter; heavy duty; single and double spring settings	17.7cm (7 in.)	<b>S08105</b>	19.75/Ea

## Eisco Disposable Forceps

Disposable nylon forceps for single use applications.



- Serrated tips for easy gripping of objects
- Corrugated handles for improved ease of use
- Contoured handles for a natural holding position
- 5 in. length

Cat. No.	Description	Price
<b>S13946</b>	Disposable Forceps	6.80/Pk

## Plastic Forceps

Medium serrated tips allow a good grip on tissue.



- Economical polypropylene forceps
- Autoclavable
- Length: 5 in. (12.7cm)

Cat. No.	Description	Price
<b>S17315F</b>	Plastic Forceps	4.00/Ea

## Featherweight Entomology Forceps



Ideal for handling larvae or eggs without crushing them or specimens stored in vials



- Bendable
- Set of 2 contains one fine tip and one wide top forceps

Cat. No.	Tip Style	Price
<b>S72113</b>	Narrow Point	6.75/Ea
<b>S72114</b>	Broad Point	6.75/Ea
<b>S72110</b>	Featherweight Entomology Forceps, Set of 2	13.25/Ea



## Microdissection Forceps Set of 5



Microdissection Forceps Set of 5 is ideal for super-fine dissection applications and working under a microscope

- Contains widely used 5 pairs of forceps
- Highly precise and extra fine tips to perform micro-dissection
- Includes 2 curved and 3 straight micro-dissection forceps
- Stainless Steel
- Transparent case



Cat. No.	Description	Price
S72112	Microdissection Forceps Set of 5	20.50/Ea

## Microdissection Forceps 4.5-inch, Stainless Steel



Microdissection Forceps 4.5-inch, Stainless Steel are ideal for working under a microscope



- Dissecting forceps is great for micro-dissection work
- Features straight or curved narrow precision points to help access hard-to-reach areas during dissection
- Narrow precision points are excellent for precisely manipulating minuscule specimens under the microscope
- Premium quality stainless steel offers durability and reliability
- Working under the microscope
- Watch makers application
- Splinter removal

Cat. No.	Description	Price
S72115	Long Narrow Points	3.00/Ea
S72116	Tapered Fine Points	3.00/Ea
S72117	Fine Curved Points	3.00/Ea

## Bone-Cutting Shears

Heavy-duty shears that cut through bones.

- Made of stainless steel, the small shear is ideal for small bones
- The large shears cut large bones easily and cleanly
- Length: 5.5 in.



Cat. No.	Description	Price
S17342	Bone Cutting Shears	39.50/Ea

## Economy Teasing Needles with Wooden Handles

Available with straight or bent tips.



Cat. No.	Style	Tip Style	Price
S07894	Straight	Straight	2.95/Pk
S07895	Bent	Bent	3.15/Pk

## Eisco Premium Museum Grade Dissection Pins

Make dissection easy with the proper tools. The Eisco Premium Museum Grade Dissection Pins are collection/museum grade insect entomology dissection pins.

- Premium, museum grade dissection pins
- Double black enamel coated with nylon gold heads
- Handmade of spring steel
- Length: 38mm



Cat. No.	Description	Price
S13976	Pack of 100 Dissection Pins	11.25/Pk

## Eisco T-Pins for Dissecting

Sold in boxes of 100.

- Nickel plated
- 1.5 in.



Cat. No.	Description	Price
S99385	T-Pins	5.00/Pk

## Specimen Bags

Ideal for storing specimens between dissecting sessions.

- Excellent for field collecting
- Extra-heavy gauge polyethylene construction resists tears and punctures
- Positive zipper-style closure ensures airtight seal



### ORDERING INFORMATION:

Pk of 1000.

Cat. No.	Description	Price
S31798B	Specimen Bags	45.25/Cs

## Fisher Science Education™ Bio-Fresh™ Concentrate

Keep your specimens moist and preserved.

- Use as a humectant during your dissections to keep your specimens moist, flexible and mold-free
- Use a spray bottle or atomizer to mist your specimens during use and just before sealing them at the end of class
- Dilute per directions on the bottle
- Contains no formaldehyde and is lightly scented



Cat. No.	Capacity (English)	Description	Price
S6011S	128.4 oz.	Bio-Fresh	49.50/Ea

## White Plastic Pails

Convenient storage.

- Stackable for space-saving storage, these heavy-duty pails are ideal to store all your specimens when used with Fisher Science Education™ Bio-Fresh™ concentrate
- Durable construction with carrying handle and leakproof lid
- Made of HDPE, high density polyethylene



Cat. No.	Capacity	Price
S6019	3.5 gal., 13L	14.00/Ea
S6020	6 gal., 23L	15.75/Ea



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# Prepared Individual Microscope Slides

We offer a full array of specimens — from general study to zoology — prepared by skilled technicians using state-of-the-art equipment.

- Made of high-quality materials for clear images
- Prepared in several steps to ensure quality
- Quality control performed after each step

## Featured GSC International Microscope Slides

Category	Description	Cat. No.
<b>Bacteria and Protists</b>		
	Gram Positive, <i>Bacillus</i> sp.	<b>S06326PS</b>
	Gram Positive, <i>Bacillus</i> so.	<b>S06325PS</b>
	Gram Positive, <i>Coccus</i> sp.	<b>S06317PS</b>
	Gram Negative, <i>Escherichia coli</i>	<b>S05873PS</b>
	Gram Negative, <i>Meningococcus</i> ( <i>Neisseria meningitidis</i> )	<b>S06320PS</b>
	Gram Negative, <i>Salmonella typhi</i>	<b>S06329PS</b>
	Gram Positive and Negative, Mixed <i>Bacillus</i> Species	<b>S06322PS</b>
<b>Botany</b>		
	Anther, <i>Lilium</i> , Cross Section	<b>S98969PS</b>
	Fibers, Cotton Textile, Whole Mount	<b>S06109PS</b>
	Fibers, Linen Textile, Whole Mount	<b>S06110PS</b>
	Leaves, Composite, Cross Section	<b>S98961PS</b>
	Mitosis, Animal and Plant ( <i>Ascaris</i> and Onion)	<b>S06276PS</b>
	Mitosis, Plant (Onion), Lateral Section	<b>S99272PS</b>
	Ovulate (Seed) Cone, Pine, Longitudinal Section	<b>S06406PS</b>
	<i>Prothallium</i> , Fern, Whole Mount	<b>S99265PS</b>
	Root, <i>Allium</i> Species, Cross Section	<b>S99270PS</b>
	Root, Angiosperm Dicot, Cross Section	<b>S06410PS</b>
	Root, Young Pine, Cross Section	<b>S06397PS</b>
	Stem, <i>Elodea</i> Species, Cross Section	<b>S99207APS</b>



# Prepared Individual Microscope Slides

## Featured GSC International Microscope Slides

Category	Description	Cat. No.
<b>Fungi and Molds</b>		
	<i>Aspergillus</i> Species, Whole Mount	<b>S99231PS</b>
	Lichen, Thallus Section	<b>S99239PS</b>
	<i>Rhizopus</i> Species, Whole Mount	<b>S99234PS</b>
<b>Genetics</b>		
	Chromosomes, <i>Drosophila melanogaster</i> , Smear	<b>S99206APS</b>
	Mitosis, <i>Lilium</i> , Longitudinal Section	<b>S99228PS</b>
	Root Tip, Onion, Whole Mount	<b>S99280PS</b>
<b>Histology</b>		
	Adipose Tissue, Mammal, H & E Stained Section	<b>S99036PS</b>
	Bone, Compact, Ground Section	<b>S99040PS</b>
	Blood Smear, Human, Wright's Stain	<b>S99032PS</b>
	Gallbladder, Human, Section	<b>S06245PS</b>
	Golgi Complex, Mammal, Spinal Ganglion Section	<b>S99210APS</b>
	Hyaline Cartilage, Mammal, Section	<b>S99041PS</b>
<b>Zoology</b>		
	Bone, Spongy, Mammalian, Section	<b>S99039PS</b>
	Blood, Amphibian (Frog), Smear	<b>S99029PS</b>
	<i>Cyclops</i> species, Whole Mount	<b>S99204APS</b>
	Earthworm, Cross Section	<b>S99203APS</b>
	<i>Planaria</i> , Whole Mount	<b>S98995PS</b>
	Tapeworm ( <i>Dipylidium caninum</i> ), Whole Mount	<b>S98998PS</b>
<b>Other</b>		
	Cross Colored Threads, Whole Mount	<b>S99200PS</b>
	Letter E, Whole Mount	<b>S99208APS</b>

Visit [fisheredu.com/slides](http://fisheredu.com/slides) or contact your Fisher Science Education sales representative for a full listing of available slides.

## Microscope Slides

## GSC Go Science Crazy Visual Microscopy Learning Kits

Photomicrographs of classical microorganisms, each in a durable, versatile frame.



The large 16 x 20 inch size and high resolution images makes it easy for a student to see cellular or tissue features that are often difficult for the student to understand on a small print or microscope slide. A teacher's guide is provided with each kit, complete with lesson plan options and classroom discussion questions. Frames are durable PVC, versatile because they are ready-to-hang on any hook or used in student hands, and can be written on with a dry erase marker.

Cat. No.	Description	Price	Cat. No.	Description	Price
S39054	Elodea, Cheek, Bacteria, Red Pepper, Banana, and Red Onion	209.00/Ea	S39082	Teased Peripheral Nerve Visual Microscopy Learning Kit	46.75/Ea
S39055	Elodea Visual Microscopy Learning Kit	46.75/Ea	S39083	Dorsal Root Ganglion Visual Microscopy Learning Kit	46.75/Ea
S39056	Cheek Cell Visual Microscopy Learning Kit	46.75/Ea	S39084	Cerebral Cortex Visual Microscopy Learning Kit	46.75/Ea
S39057	Red Pepper Cell Visual Microscopy Learning Kit	46.75/Ea	S39085	Blood Cell Visual Microscopy Learning Kit	209.00/Ea
S39058	Banana Cell Visual Microscopy Learning Kit	46.75/Ea	S39086	Neutrophil Visual Microscopy Learning Kit	46.75/Ea
S39059	Red Onion Cell Visual Microscopy Learning Kit	46.75/Ea	S39087	Lymphocyte Visual Microscopy Learning Kit	46.75/Ea
S39060	Epithelial Tissue Visual Microscopy Learning Kit	242.00/Ea	S39088	Monocyte Visual Microscopy Learning Kit	46.75/Ea
S39061	Simple Squamous Epithelium Visual Microscopy Learning Kit	46.75/Ea	S39089	Eosinophil Visual Microscopy Learning Kit	46.75/Ea
S39062	Simple Cuboidal Epithelium Visual Microscopy Learning Kit	46.75/Ea	S39090	Basophil Visual Microscopy Learning Kit	46.75/Ea
S39063	Simple Columnar Epithelium Visual Microscopy Learning Kit	46.75/Ea	S39091	Microbiology Visual Microscopy Learning Kit	367.00/Ea
S39064	Sratified Squamous Epithelium Visual Microscopy Learning Kit	46.75/Ea	S39092	Gram Positive Cocci Visual Microscopy Learning Kit	46.75/Ea
S39065	Pseudostratified Epithelium Visual Microscopy Learning Kit	46.75/Ea	S39093	Gram Negative Cocci Visual Microscopy Learning Kit	46.75/Ea
S39066	Transitional Epithelium Visual Microscopy Learning Kit	46.75/Ea	S39094	Gram Positive Bacilli Visual Microscopy Learning Kit	46.75/Ea
S39067	Muscle Tissue Visual Microscopy Learning Kit	280.00/Ea	S39095	Coccal Tetrads Visual Microscopy Learning Kit	46.75/Ea
S39068	Skeletal Muscle Tissue Visual Microscopy Learning Kit Showing Striations	46.75/Ea	S39096	Bacillus Chains Visual Microscopy Learning Kit	46.75/Ea
S39069	Skeletal Muscle Tissue Visual Microscopy Learning Kit Showing Both CS (Multinucleate) and LS (Striations)	46.75/Ea	S39097	Gram Positive Coccobacilli Visual Microscopy Learning Kit	46.75/Ea
S39070	Skeletal Muscle Tissue and Fascia Visual Microscopy Learning Kit	46.75/Ea	S39098	Gram Negative Coccobacilli Visual Microscopy Learning Kit	46.75/Ea
S39071	Muscle Tissue Visual Microscopy Learning Kit Showing Neuromuscular Junctions	46.75/Ea	S39099	Gram Negative Bacilli Visual Microscopy Learning Kit	46.75/Ea
S39072	Cardiac Muscle Tissue Visual Microscopy Learning Kit Showing Striations	46.75/Ea	S39100	Acid Fast Stained Bacteria Visual Microscopy Learning Kit	46.75/Ea
S39073	Cardiac Muscle Tissue Visual Microscopy Learning Kit Showing Central Nuclei	46.75/Ea	S39101	Three types of Bacteria Visual Microscopy Learning Kit	46.75/Ea
S39074	Smooth Muscle Tissue Visual Microscopy Learning Kit	46.75/Ea	S39102	Connective Tissue Visual Microscopy Learning Kit	350.00/Ea
S39075	Nervous Tissue Visual Microscopy Learning Kit	350.00/Ea	S39103	Areolar Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39076	Spinal Cord Visual Microscopy Learning Kit	46.75/Ea	S39104	Dense Regular Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39077	Spinal Gray Matter Visual Microscopy Learning Kit	46.75/Ea	S39105	Dense Irregular Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39078	Spinal White Matter Visual Microscopy Learning Kit	46.75/Ea	S39106	Adipose Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39079	Spinal Central Canal Visual Microscopy Learning Kit	46.75/Ea	S39107	Blood Visual Microscopy Learning Kit	46.75/Ea
S39080	Multipolar Neuron Visual Microscopy Learning Kit	46.75/Ea	S39108	Bone Visual Microscopy Learning Kit	46.75/Ea
S39081	Peripheral Nerve Visual Microscopy Learning Kit	46.75/Ea	S39109	Elastic Cartilage Visual Microscopy Learning Kit	46.75/Ea
			S39110	Hyaline Cartilage Visual Microscopy Learning Kit	46.75/Ea
			S39111	Reticular Connective Tissue Visual Microscopy Learning Kit	46.75/Ea

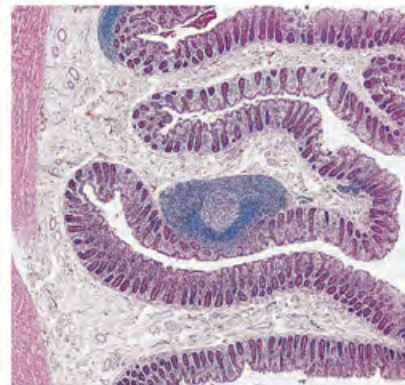
## Histology of Mammalia, Basic Set

Precision slides are mounted by expert microtechnicians.

Basic set of 25 slides are created from fresh, top-quality specimens and expertly fixed, stained and hand-mounted by specialists in the field. Ultrasonically cleaned to eliminate striations and bubbles.

### INCLUDES:

- Squamous epithelium, isolated cells
- Fibrous connective tissue
- Adipose tissue, fat stained Hyaline cartilage, c.s.
- Compact bone, c.s.
- Striated muscle, l.s.
- Smooth muscle, c.s. and l.s.
- Blood smear, human
- Artery, c.s.
- Vein, c.s.
- Lung, c.s.
- Pancreas with islets of Langerhans, c.s.
- Tongue, c.s.
- Stomach, fundic region, c.s.
- Small intestine, c.s.
- Liver, c.s.
- Kidney, c.s.
- Ovary with developing follicles, c.s.
- Testis with spermatogenesis, c.s.
- Cerebrum, c.s.
- Cerebellum, c.s.

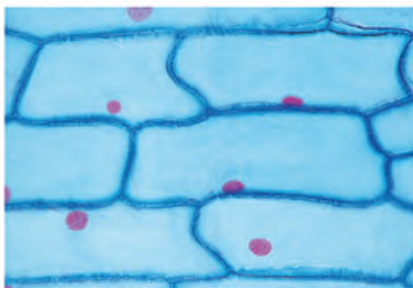


- Spinal cord, c.s.
- Nerve fibers isolated
- Motor nerve cells, smear from spinal cord
- Scalp, human, l.s. of hair follicles

Cat. No.	Description	Price
S2400	Histology of Mammalia, Elementary Set	235.00/Pk

## Fisher Science Education™ Plant Cells Basic Slide Set

Take a closer look at plant cells.



### Set of six slides includes:

- Mitosis, l.s. from *Allium* root tips showing all stages of plant mitosis carefully stained with iron-hematoxyline after Heidenhain
- Epidermal cells of *Allium cepa* (onion), flat mount shows typical plant cells with nuclei, cytoplasm and cell walls
- Sieve plates in top view, t.s. of *Cucurbita* stem showing large structures
- *Spirogyra*, in scalariform conjugation and after the stage of conjugation showing zygotes, w.m.
- Wood cells, fibers and vessels of *Fagus*, beech, macerated and w.m.
- Starch grains, sec. of tuber of *Solanum tuberosum*, potato showing starch and cork cells

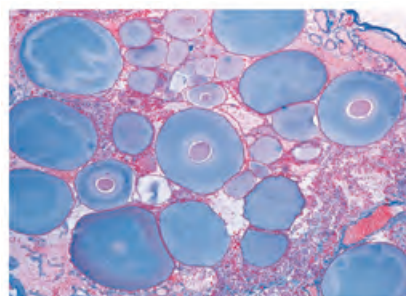
### INCLUDES:

Plastic box for 25 microscope slides

Cat. No.	Description	Price
S68787	Plant Cells Basic Slide Set	97.00/Ea

## Fisher Science Education™ Animal Cells Basic Slide Set

A variety of basic animal cell slides.



### Set of six slides includes:

- *Squamous epithelium*, isolated cells from human mouth, smear
- Striated (skeletal) muscle l.s.
- Nerve cells and fibers in spinal cord of cat, t.s. routine stained
- Ovary of cat, t.s. for general study, shows primary, secondary and Graafian follicles
- Testis of rat, t.s. showing spermatogenesis
- Giant chromosomes, smear from salivary gland of *Chironomus*, carefully fixed and stained

### INCLUDES:

Plastic box for 25 microscope slides

Cat. No.	Description	Price
S68788	Slide Set, Animal Cells, Johannes Lieder	98.00/Ea



## Animal Cell Set

Twelve slides show a variety of tissues.

Set contains 12 slides of animal cytology with depicted accompanying brochure. Epithelium, muscle, bone, nerve, internal organs, sex organs and chromosomes are all represented in this slide set. It shows a fine cross section of tissue types useful for classroom microscope study.

### Includes:

- Squamous epithelium, isolated cells from human mouth. Nuclei and cytoplasm are shown
- Striated muscle l.s. showing nuclei, striations, myofibrils
- Compact bone and hyaline cartilage t.s., two sections on one slide for comparison
- Nerve fibres isolated, fixed and stained by osmic acid to show myeline sheaths and Ranvier's nodes
- Liver of Salamandra t.s., showing simple animal cells with cellular membranes, nuclei, and cytoplasm
- Kidney of mouse, t.s. vital stained with trypanblue to demonstrate the storage of epithelial cells
- Ovary of cat, t.s. showing primary, secondary, and Graafian follicles
- Testis of frog, t.s. showing spermatogenesis. Spermatogonia, spermatocytes, spermatids, and mature spermatozoa
- Salamandra larva, t.s. of skin and other organs selected to show cell division (mitosis) in various stages
- Uteri of *Ascaris megalocephala*, t.s. iron hematoxyline stained to show details of meiosis with chromosomes and nuclear spindles
- Salivary gland of *Chironomus* larva. Giant chromosomes showing large chromomeres. Stained for DNA after Feulgen
- Ova from *Psammechinus* (sea urchin). Unfertilized ova, fertilized ova, early cleavage stages



Cat. No.	Description	Price
S5000	The Animal Cell 12 Slides	220.00/Ea

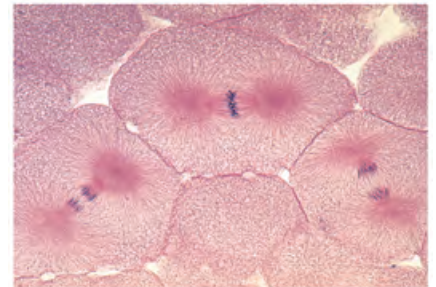
## Mitosis, Meiosis and Fission Set

Shows IPMAT in slides.

Set of five slides shows the stages of nuclear division, cytokinesis, reduction division and even fission in *Paramecium*.

### INCLUDES:

- *Vicia faba* (broad bean) root tip squash, showing all stages of mitosis, stained with Feulgen reaction for DNA. *Vicia* has 12 large chromosomes
- Whitefish mitosis, sections of *Coregonus* blasto-disc, all stages of mitosis shown
- Lily meiosis, first meiotic divisions in cross section of liliun anther
- Grasshopper Testis, l.s. to show spermatogenesis and spermiogenesis; stained with iron-hematoxylin
- *Paramecium caudatum* in fission, w.m. of mass culture including several specimens in fission



Cat. No.	Description	Price
S10044	Mitosis Meiosis and Fission 5/pk	122.00/Pk

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Animals

## Chick Life Cycle Exploration Set

Crack open set of 21 eggs and see the day-by-day development of a chick.



Features realistic illustrations of a developing chick in eggs 1 to 20, plastic 3-D chick inside the final egg.

- Invites children to make hands-on connections to life science and life cycles
- Reinforces concepts and related vocabulary with multilingual Activity Guide that includes definitions, chicken facts and a blackline master to label
- Enables self-checking and easy organization with numbered label on each egg and numbered places in storage tray
- Durable plastic eggs measure 2.75 in.L each; plastic tray measures 15L x 8.5 in.W

**ORDERING INFORMATION:**

Grades K to 4.

Cat. No.	Description	Price
S98475	Chick Life Cycle Exploration Set	40.00/Ea

## Small Barn Owl Pellets

Students learn the nature of food chains and how to demonstrate the role of predators in the ecosystem.

- Average size of pellet is less than 1.5 in. long
- From Pacific Northwest or other areas
- Package of 20



Cat. No.	Description	Price
S04784	Small Barn Owl Pellets	54.00/Ea

## Large Barn Owl Pellets

Students learn the nature of food chains and how to demonstrate the role of predators in the ecosystem.

Pellets are collected from natural nesting and roosting sites of the barn owl. Each pellet is unique in size, shape and contents.

- Average size of pellet is 2.5 to 3 in. (6.3 to 7.6cm) long
- Heat sterilized and individually wrapped in foil



Cat. No.	Description	Price
S193661	Barn Owl Pellet; Pack of 15	61.25/Pk
S19366PI	Barn Owl Pellet; Pack of 10	40.25/Pk

## Classroom Owl Pellet Kit

Economical and complete for individualized learning.

Kit provides all of the materials necessary to perform an analytical analysis of the owl's habitat, its primary food source and its relationship in the food chain.

**ORDERING INFORMATION:**

Class size: 30 students.

**INCLUDES:**

15 heat sterilized, individually wrapped barn owl pellets from the Pacific Northwest; poster depicting the food web in a typical barn owl community; poster of the skeleton of the vole (the most common food of barn owls); bone sorting chart; complete teaching guide containing background information, suggested teaching strategies, a laboratory guide, suggestions for collecting owl pellets and references



Cat. No.	Description	Price
S19366B	Owl Pellet Kit	89.00/Ea

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## Kemtec™ Owl Pellet Kit

Students discover what an owl had to eat by examining the owl pellet.



- Includes bone charts for identifying bones and assembling them into skeletons to evaluate an owl's food source
- Explore feeding habits of owls and their place in food chain
- May be used by older students to study intricate balance and relationships between trophic levels in food web, energy flow and population densities
- Includes 12 owl pellets and all dissection materials
- Grades K to 12
- Class size: 24 students

### INCLUDES:

Instructor manual, student data sheets, bone charts, sterilized owl pellets, hand magnifiers, tweezers, plastic bags, toothpicks

Cat. No.	Description	Price
S02094	Owl Pellet Kit	107.00/Ea

## Edvotek™ AP LAB 12: Fruit Fly Behavior

Introduces students to the concept of distribution of organisms.

- The objective of this experiment is to introduce students to the concept of distribution of organisms in a resource gradient and to learn the difference between kinesis and taxis
- *Drosophila* must be requested three weeks prior to use

### ORDERING INFORMATION:

- Class size: 10 lab groups
- Requires 1.5 to 2 hours

### INCLUDES:

Transfer pipets; cotton balls; Edvotek Instant *Drosophila* Growth Media; *Drosophila* vials and vial plugs

### REQUIRES:

Wild-type *Drosophila*; plastic water bottles (two per group and extra caps); any combination of household condiments; fruits; and lab chemicals; laboratory notebook; dissecting microscopes; color pens (for graphing); transparent colored film (for wrapping chamber); clear tape; goggles; funnel; timer; water



Cat. No.	Description	Price
S06890	Fruit Fly Behavior	112.00/Ea

## Kemtec™ Food Chain Kit

Introduces students to the concepts of food chains.

- For students to study different relationships within an environment, importance of each organism, how energy is transferred, and delicate balance in environment of food web
- Discuss producers, consumers, herbivores, carnivores, omnivores, predators, prey, decomposition, energy flow, food cycles, food chains, food webs, and food pyramids
- Observe pond water and soil habitat food webs and pyramids
- Study effects of acid rain, road salt and field runoff on environments
- Model decomposition of plant matter
- Design own food webs
- Grades 4-7
- Class size: 24 students



### INCLUDES:

Instructor manual, student data sheets, overhead transparencies, food chain picture card game, CD with images, Ziploc™ bags and cotton swabs

Cat. No.	Description	Price
S02091	Food Chain Kit	113.00/Ea

## LAB-AIDS™ Owl Pellet Study Kit

Dissect owl pellets and identify contents using illustrated worksheets.

- Useful in studying animal skeletons, the feeding habits of owls and their role in the food chain
- Undigested bones, teeth, hair and feathers are pressed into a pellet that is regurgitated by owls
- Assemble the bones and identify the owl's food source



### ORDERING INFORMATION:

Class size: 30 students.

### INCLUDES:

- 15 owl pellets collected from one region, fumigated, individually wrapped and treated with dichloride
- 15 teasing needles
- 30 worksheets
- 15 specimen identification sorting charts
- 15 keys to mammals commonly eaten by owls
- Manual and background information

Cat. No.	Description	Price
S19366	Owl Pellet Study	120.00/Ea



## LAB-AIDS™ Natural Selection Experiment Kit

Test Darwin's famous theory.

During England's Industrial Revolution, air pollution darkened the bark of trees; it was therefore difficult for predatory birds to see and catch black-winged moths, so the birds ate more white-winged moths. The result was that the moth population shifted more and more toward the black-winged variety. Duplicate the famous "peppered moth" evolution in your lab — students set up environmental trays to collect data.

- A realistic way to demonstrate Darwin's Theory of Natural Selection, industrial melanism and environmental pollution

Experiment simulates the predator-prey relationship that changed the balance of nature for the light and dark peppered moth



Cat. No.	Description	Price
S19454	Natural Selection Experiment Kit	65.25/Ea

## LAB-AIDS™ Classifying Animals

Students construct and compare animal classification systems. LAB-AIDS™ Classifying Animals helps demonstrate how and why biologists classify animals.

Students work together to arrange a set of 18 Animal Cards into groups and then adjust their groupings as they learn how scientists classify animals into phyla. By identifying the common features of animals within each phylum, students learn what kinds of characteristics define the major animal phyla. Each card provides a color photo of an organism as well as relevant information about skeletal, circulatory, and respiratory systems. Students review the relationship between kingdom and phyla by placing the Animal Cards within a set of Classification Cards that summarize the five major kingdoms.

- Maximum 32 students/8 groups
- One 50 minute class period
- Non-consumable; can be reused

### Concepts Illustrated:

- Construct and compare classification systems
- Describe characteristics used to define phyla
- Identify several invertebrate phyla
- Understand the relationship between kingdom and phylum

### INCLUDES:

Teacher's guide; 8 sets of 18 Animal Cards; 8 sets of 5 Classification Cards; 32 student worksheets and guides; 32 student data sheets: Biologists Classification



Cat. No.	Description	Price
S90183	Classifying Animals Kit	74.00/Ea

## LAB-AIDS™ Natural Selection and Antibiotic-Resistant Bacteria

Antibiotics are effective against many bacterial infections, but not against viral infections.

- Model the effects of antibiotics on the population of disease-causing bacteria during an infection
- Some groups will model the full course of antibiotics, while others will miss doses
- Graph populations of more-resistant and less-resistant bacteria
- Demonstrates how more-resistant bacteria forms when treatments are intermittent or discontinued prematurely

Cat. No.	Description	Price
S94501	Natural Selection and Antibiotic-Resistant Bacteria Kit	90.00/Ea



## LAB-AIDS™ Investigating Selective Breeding Kit

Experiment that demonstrates the principle of controlling specific genetic characteristics through selective breeding.

In this series of two activities, students explore inherited traits. They use LAB-AIDS simulated corn ears and Punnett squares to gather data on, interpret and predict the probability of traits being passed from parent to offspring. They also read about “survival of the fittest,” natural selection, selective breeding and the relationships between these concepts.

### Scientific Concepts and Processes

- Physical differences between parents and offspring can accumulate in successive generations so that descendants are very different from their ancestors
- Humans can control some characteristics of plants and animals they raise by a process called selective breeding
- Because of the way traits are passed from parents to offspring, selective breeding for particular traits can result in new varieties of plants and animals
- “Survival of the fittest” describes how in any particular environment individual organisms with certain traits are more likely than others to survive and have offspring
- Natural selection describes how different species have, over generations, obtained traits that are well adapted to the environment in which they live

**Note:** This kit is designed for use with 12 teams of two students. If any of your classes have more students than this kit accommodates, you can obtain extra components. Each Enlarge-A-Lab Kit contains enough materials for two additional student teams.



### INCLUDES:

- 28 student worksheets and guides
- Teacher's guide
- 12 sets of two Corn Ears (A and B)
- Color transparency: Four Cattle Breeds

Cat. No.	Description	Price
S98798	Investigating Selective Breeding Kit	47.25/Ea

## Plants

### Eisco Typical Flower Model

Detachable model of flower for botanical study.

- Ovary with single interior ovule
- Fixed on base
- Numbered with English Key Card
- L x W x H:  
42 x 22 x 33cm  
(16.5 x 8.6 x 13 in.)



Cat. No.	Description	Price
S15626	Flower Model	74.25/Ea

### Dicot Flower Model

Allows students to easily study the floral components and reproductive functions of flowers.

Enlarged to approximately eight times life size.

- Can be disassembled to reveal the pollen grains inside and show the process of pollination
- Structures are numbered on the flower model and correspond to an identification key
- Dimensions:  
17.7 x 15.7 x 12 in.  
(45 x 39.9 x 30.5cm)



Cat. No.	Description	Price
S06699	Dicot Flower Model	142.00/Ea

## Garden Guide Kit

Convenient kit for classroom soil testing and garden analysis.

Measures nitrogen, phosphorus, potassium and soil pH.

- Blue zippered case holds all components, including instruction manuals and accompanying handbooks
- Mesh pouch in the case lid holds color charts, etc.
- Grades 5+

### INCLUDES:

- 15 tests each for nitrogen, phosphorus and potassium; 30 tests for soil pH (range 4.0 to 9.0)
- Diagrammed instructions
- Laminated color charts
- *Garden Guide* manual
- *LaMotte™ Soil Handbook*
- *A Study Of Soil Science*



Cat. No.	Description	Price
S85039	Garden Guide Kit	68.75/Ea
S85039R	Reagent Refill	54.00/Ea

## Edvotek™ Brassica Quick Plant™ Seeds

Quick-growing seeds encourage hands-on classroom activities.

- Vial contains 200 seeds

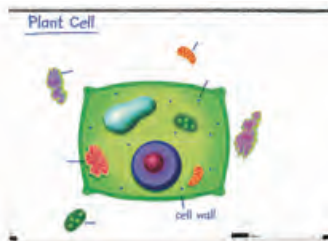


Cat. No.	Description	Price
S05697	Brassica Quick Plant Seeds	57.00/Ea

## Giant Magnetic Plant Cells

Giant 3-D cell structures printed on raised foam magnets actively engage students.

- Four-piece plant cell
- Nine 3-D organelles
- Activity Guide with background information and diagram master
- Measures 18 in.
- Coordinates with foam cell model (S90817)



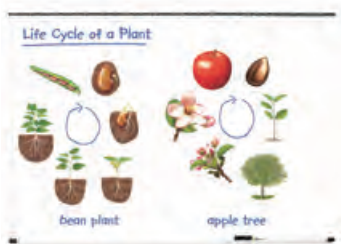
**ORDERING INFORMATION:** Grades 4+.

Cat. No.	Description	Price
S04226	Giant 3D Magnetic Plant Cells Model	21.25/Ea

## Giant Magnetic Plant Life Cycles

Enlarged for demonstration on the whiteboard.

- Real-life photos model
- Displays up to six stages in life cycle of a bean plant and apple tree
- Label-free for versatility
- Largest piece measures 9H x 7 in.L



### ORDERING INFORMATION:

Grades K+.

Cat. No.	Description	Price
S04229	Giant Magnetic Plant Life Cycles Model	21.25/Ea

## Edvotek™ Quick Plants™ Seeds

From seed to flower in 6-7 weeks.

- Grow rapidly and flourish under fluorescent light
- Rapid growth make these plants ideal for classroom use
- Arabidopsis Thaliana
- 300 seeds



Cat. No.	Description	Price
S94675	Dwarf Type Quick Plant Seed	26.00/Ea

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## Edvotek™ Advanced Placement Laboratory Kit 4: Plant Pigment Chromatography and Photosynthesis

Experiment demonstrates light-dependent reactions of photosynthesis by colorimetric assay, and helps students to gain an understanding of the biochemical processes by which they work.

Reformulated solvent systems are less flammable and less toxic than commonly used ether and acetone systems.

- Gain an understanding of the theory and applications of chromatography
- Use thin layer chromatography to separate plant pigments carotene, xanthophyll, and chlorophyll
- Perform an assay of the light reactions of photosynthesis using intact chloroplasts and the dye DCIP

### ORDERING INFORMATION:

Class size: 10 laboratory groups (40 students).

### INCLUDES:

- Chloroplast extraction buffer (concentrate that contains sorbitol and magnesium salts buffered at pH 7.6)
- Reducing reagent
- Chloroplast dilution buffer (concentrate; contains phosphate buffer, sorbitol and stabilizers)
- DCIP (2,6-dichlorophenol-indophenol, concentrate)
- Standard pigments (chlorophylls a+b, xanthophylls, b-carotene)
- Chromatography solvent (mixture of ethanol, isopropanol, and water with non-ionic polymer additives)
- Sarkosyl (concentrated ionic detergent)
- Thin layer cellulose chromatography plate
- 40 Capillary pipets, 5µL
- Four plastic transfer pipets
- 24 Microtest tubes with attached lids
- Nine plastic centrifuge tubes, 15mL
- Comprehensive instructions, background material, and study questions

### REQUIRES:

- Visible wavelength spectrophotometer (see S42669ND)
- Pencils
- Clinical benchtop centrifuge
- Metric rulers
- Test tube racks
- Flood light or small portable lamps (60w is sufficient)
- Pipet pumps or bulbs
- Distilled water
- Test tubes, 10mL (13 x 100mm)
- Beakers, 100mL
- Pipets, 1 and 5mL
- Ice
- Cheesecloth
- 95-100% isopropanol† (2-propanol)
- Aluminum foil
- Fresh spinach



Cat. No.	Description	Price
S11284	AP Lab Kit 4: Plant Pigment Chromatography and Photosynthesis	147.00/Ea

† Rubbing alcohol will not work, as it is only 70% isopropanol.

## Edvotek™ Introduction to Plant Cell Culture

Great introduction to plant cell culture.

- Two-part experiment establishes cell cultures from plant materials and focuses on plant regeneration
- Learn about sterile testing procedures, components of plant culture media and effects of plant growth regulators on cell cultures

### INCLUDES:

- Shoot initiation growth medium; shoot elongation growth medium
- Tween™
- Sterile Petri plates
- Parafilm
- Growth container
- Peat pellets
- 10mL pipets
- Complete instructions, background information and study questions

### REQUIRES:

- *Saintpaulia ionantha* (African Violet)
- Distilled water
- 70% and 95% ethanol
- 100% isopropanol
- Bleach
- Forceps
- Scalpels and blades
- Laminar flow hood or sterile transfer hood
- Antibacterial soap
- Gloves
- Fluorescent light source
- Beaker, 600mL
- Sterile beakers
- Aluminum foil
- Pipet pump
- 10cm test tubes and racks
- Spray bottle



Cat. No.	Description	Price
S67263	Plant Cell Culture Kit	160.00/Ea

## Edvotek™ Genetically Modified Plants

Learn basic concepts of genetic modifications in organisms.

- Components for 10 groups
- Grow organic and genetically modified soybean and corn and monitor growth characteristics
- Detect differences

**INCLUDES:**  
Wild type (WT) soybean seeds, Genetically modified (GM) soybean seeds, Wild type (WT) corn seeds, Genetically modified (GM) corn seeds, Labeling sticks, content background, experiment procedures, safety information and assessment questions and answers.



Cat. No.	Description	Price
S97672	Genetically Modified Plants	65.00/Ea

## LAB-AIDS™ Photosynthesis and Cellular Respiration

An investigation into the reactions of photosynthesis and cellular respiration. LAB-AIDS™ Photosynthesis and Cellular Respiration is a real-world, non-consumable activity introducing photosynthesis and cellular respiration in the context of carbon cycling in 2-3 class periods.

In Part 1 of this kit, students test several common objects to determine if they are conductors or insulators. In Part 2, students test electrical conductivity in aqueous solutions. Tests include an acid, base, salt, alcohol and a hydrocarbon. This kit is an excellent introduction for students in physical science, general science and introductory chemistry courses. Conductivity indicators are required for these activities, but are not included with this kit.

- 6 groups of 4 students
- Non-consumable; can be used for years
- Ambient temperature safe
- Keep dry

### Concepts Illustrated:

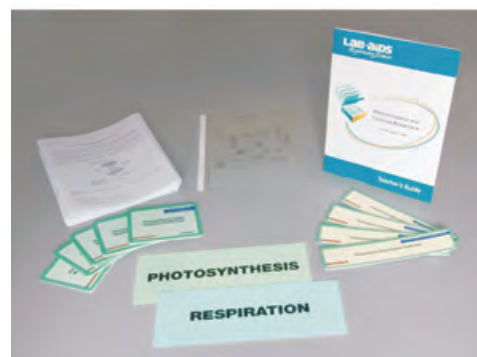
- Photosynthesis is a cellular process through which organisms capture light energy from the sun and use it to generate and store energy
- Cellular respiration releases stored energy in glucose, allowing the organism to function
- The products and reactants in photosynthesis and cellular respiration - energy, carbon dioxide, water, glucose and oxygen
- Students make accurate interpretations, inferences, and conclusions.

### INCLUDES:

Teacher's guide, 28 student worksheets and guides, 6 sets of 8 photosynthesis and cellular respiration cards, 6 sets of 12 photosynthesis and cellular respiration strips, 6 sets of 2 category cards, 1 transparency 1: Kelp Forest Food Web

### REQUIRES:

Conductivity indicators



Cat. No.	Description	Price
S02447	Kit: Photosynthesis and Cellular Respiration	94.00/Ea

## Photosynthesis and Respiration Chamber

Monitor the cycle of photosynthesis and respiration of plants using O<sub>2</sub>, CO<sub>2</sub> and light sensors over several days.

Supplied with respiration chamber, #0 and #7 rubber stoppers, instructions.

### REQUIRES:

NeuLog™ Oxygen Logger Sensor (S98243-8ND), CO<sub>2</sub> Logger Sensor (S98243-3ND), and Light Logger Sensor (S98243-20ND); sensors not included



Cat. No.	Description	Price
S02141**	Photosynthesis and Respiration Chamber	32.50/Ea

 \* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Seed Germination and Plant Structure

Designed for young elementary students. Innovating Science™ Seed Germination and Plant Structure helps students examine and understand the needs of plants for growth and survival.

This kit contains materials for 15 groups of two to dissect and germinate seeds, and compare their plant's growth to other types of plants grown in the classroom,

### Kit Includes:

- 15 Bean Seeds
- 15 Magnifiers
- 15 Toothpicks
- 30 Plastic cups,
- 5 oz. 30 Plastic cups,
- 7 oz. 30 Pea seeds
- 30 Sunflower seeds
- 30 Wicks
- 1 bag Soil
- Developed for grades K - 2



Cat. No.	Description	Price
S42854	Seed Germination and Plant Structure	42.00/Ea

## Plant Trays

Perfect seed starters that never rot or rust.

- Made of high-impact green polystyrene
- Can also be used for a variety of laboratory applications
- Nest for easy storage



Cat. No.	Depth (English)	Length (English)	Width (English)	Price
S17640	2.5 in.	4 in.	8 in.	3.00/Ea
S17641	2.5 in.	8 in.	8 in.	3.85/Ea
S17642	2.5 in.	8 in.	12 in.	6.70/Ea
S17644	3.5 in.	13 in.	15 in.	11.60/Ea

## Plant LITE™ Carts

Easily movable wheeled cart.

Keep classroom plants together and well lit.

- Made from 1 in. square aluminum tubing
- Easy to assemble
- Shelves are not adjustable
- Deluxe ballasts moderate power consumption
- Dimensions: 74 x 53 x 23 in. (185 x 132.5 x 57.5cm)

### INCLUDES:

- Four 22 x 11 in. (55 x 27.5cm) Perma-Nest trays per shelf
- Four 3 in. (8cm) wheels
- Three light fixtures
- Six Gro-Lux™ wide-spectrum bulbs



Cat. No.	Description	Price
S17995	Plant Lite Carts	865.70/Ea



## GrowLab™ II Compact Indoor Garden

Ideal for classrooms on a budget where space is limited and/or mobility is not an issue.

Complete, programmable, indoor growing unit allows more freedom.

- Sturdy, easy-to-assemble frames constructed of 1 in. (2.5cm) square aluminum
- Lightweight, 48 in. (123cm) fluorescent fixtures on easy-to-adjust slide rods
- 40w Sylvania™ Gro-Lux™ wide-spectrum bulbs for optimum plant growth
- Removable plant trays constructed of rigid heavy-duty plastic
- 24-hour programmable timers control “day” length
- Plastic moisture grids provide water for plants on weekends
- Humidity tent provides a moist and warm growing environment

### ORDERING INFORMATION:

Frame dimensions: 54 × 12 × 40 in. (135 × 30 × 100cm).

### INCLUDES:

- One light fixture
- Two 40w Gro-Lux wide-spectrum bulbs
- Two plastic trays
- Two moisture grids
- 24-hour timer



- Climate control tent
- 128-page teacher’s manual
- “Growlab: A Complete Guide to Gardening in the Classroom”

Cat. No.	Description	Price
S28280	Compact Indoor Garden	338.30/Ea

## GrowLab™ II Mobile Indoor Garden

A full-size, movable GrowLab.

These complete, programmable, indoor growing units allow you more freedom. Developed by the National Gardening Association.

- Top shelf is used for growing and the bottom for supply storage
- Sturdy, easy-to-assemble frame is constructed of 1 in. (2.5cm) square aluminum
- Lightweight, 48 in. (123cm) fluorescent fixtures on easy-to-adjust slide rods
- 40w Sylvania™ Gro-Lux™ wide-spectrum bulbs for optimum plant growth
- Removable plant trays constructed of rigid heavy-duty plastic
- 24-hour programmable timers to control “day” length
- Plastic moisture grids provide water for plants on weekends
- Humidity tent provides a moist and warm growing environment

### ORDERING INFORMATION:

Frame dimensions: 54 × 23 × 74 in. (135 × 57.5 × 185cm)

### INCLUDES:

- Two light fixtures
- Four 40w Gro-Lux wide spectrum bulbs
- Eight plastic trays
- Four moisture grids
- Four locking casters
- 24-hour timer
- Climate control tent
- Power strip
- 128-page teacher’s manual, “GrowLab: A Complete Guide to Gardening in the Classroom”



Cat. No.	Description	Price
S28282	Mobile Indoor Garden	697.60/Ea

## Inflatable Plant Cell Model

Great for reviewing cell parts and building vocabulary!

- Provides classrooms with a stimulating visual aid and effective teaching tool
- Students can toss the Plant Cell around the room, answering cell related questions
- Latex-free



### ORDERING INFORMATION:

Size: 12 x 8 x 16 in.  
(30.5 x 20.3 x 40.5cm)

### INCLUDES:

Repair patch

Cat. No.	Description	Price
S97338	Inflatable Plant Cell Model	13.00/Ea

## Soil pH Meter

Meter designed exclusively for quick soil testing.

- Measures soil pH from 3.5 to 9 so you can ensure proper plant nutrition
- No more litmus paper, chemicals or messy solutions
- No batteries required — meter works by sensing minute soil currents
- Packaging includes detailed instruction with optimal pH values for more than 400 plants



Cat. No.	Description	Price
S45153	Soil pH Meter	29.50/Ea

## Eisco Potometer Apparatus

For measuring transpiration and humidity.

- Glass capillary tube with millimeter scale connected via three-way tap to syringe
- Mounted on strong backing plate
- Supplied with manual
- 15 x 7.5 x 19.5cm



Cat. No.	Description	Price
S24470	Potometer	28.00/Ea

## Desert Plant Set

With Five species desert cacti, suitable soil, and instructions.



- Plant set only
- Requires terrarium

Cat. No.	Description	Price
S06604	Desert Plant Terrarium Set	41.25/Ea

## Thermo Scientific™ Growth Chamber and Mobile Stand

Versatile, programmable growth chamber is perfect for plants, animals and cultures.



- ON/OFF indicator lights show chamber status at a glance
- One shelf, four fluorescent lights; manual
- Three incandescent lamps
- Two interior electrical outlets
- Heating cable with temperature sensor
- Watertight removable plastic bottom
- Dual-function panel hygrometer/thermometer
- Chamber volume: 14.2 cu. ft.
- Made of rugged steel construction finished with white enamel inside and brown enamel outside
- Operates on 120VAC 800w



### Single control panel features:

- Main power switch
- Lamp switch
- Thermostat
- 24-hour timer/programmer
- Switches for heater and fan

### ORDERING INFORMATION:

- Overall dimensions: 52 x 18.5 x 38 in. (132 x 47 x 97cm)
- Interior dimensions: 50 x 17 x 29 in. (127 x 43 x 74cm)
- Shipping weight: 107kg

Cat. No.	Description	Price
S53096MF	Plant Growth Chamber	7114.00/Ea
S530961MF	Mobile Chamber Stand	1375.00/Ea

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## Cell Biology

## Eisco Model Animal Cell on Stand

Basic large-size animal cell ideal for introducing the study of cells to students.

- Large model of a basic animal cell shows internal structures and organelles on one side
- Nucleus is cut away to show nucleolus
- Mounted on stand
- Supplied with English Key Card
- L x W x H: 25 x 18 x 34cm (9.8 x 7.1 x 13.4 in.) approx
- Weight: 700g (1.5 lb.) approx



Cat. No.	Description	Price
S13025	Animal Cell Model on Stand	206.00/Ea

## Eisco Plant and Animal Cell Comparison Model

Set of two models to compare plant and animal cells.



- Enables teaching of plant and animal cell structures
- Numbered with English Key Card
- Mounted on stand
- Size: 24L x 17W x 18cm H (9.5 x 6.7 x 7 in.)

Cat. No.	Description	Price
S15637	Plant and Animal Cell Comparison Model	113.00/Ea



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## 3B Scientific™ Plant Cell Model

Magnified 500,000 to 1,000,000 times.

- Two-piece model presents the structure of a typical plant cell with cytoplasm and cell organelles as viewed from an electron microscope
- All important organelles are raised and displayed in color
- Dimensions: 7.8 x 5.5 x 12.6 in. (20 x 14 x 32cm)

### Displays:

- Cell wall
- Cell membrane
- Nucleus
- Smooth endoplasmic reticulum
- Rough endoplasmic reticulum
- Ribosomes
- Chloroplasts
- Mitochondria
- Dictyosomes/Golgi apparatus



Cat. No.	Description	Price
S96171	Plant Cell Model	371.00/Ea

## Eisco Animal Cell Division Models

Displays different stages in mitotic and meiotic cell division.

### Mitosis Model

- Set of 10 models
- Depicts resting cell, early prophase, prophase, late prophase, metaphase, anaphase, late anaphase, telophase and daughter cells
- Size: approx. 50L x 45W x 4cm (19.6 x 17.7 x 1.5 in.)



### Meiosis Model

- Set of 12 models attached to labeled base
- Colored to show the different stages as seen under microscope
- Size: approx. 50L x 45W x 4cm (19.6 x 17.7 x 1.5 in.)

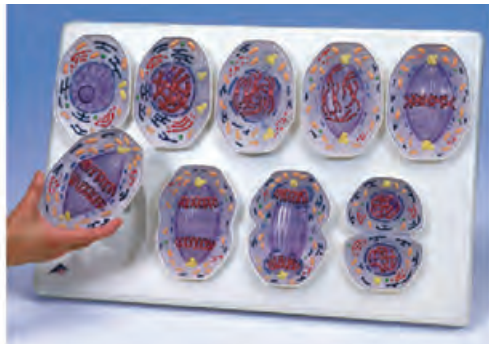


Cat. No.	Description	Price
S15641	Animal Cell Division Mitosis Model	144.00/Ea
S15642	Animal Cell Division Meiosis Model	135.00/Ea

### 3B Scientific™ Mitosis Model

Model displays the nine phases of mitosis in a typical mammal cell at an enlargement of approximately 10,000 times.

- The three-dimensional relief models are painted according to the usual coloring methods of microscopy
- Makes the process of cell division easy to understand
- The cell organelles are shown as if opened up in the lower part of the models
- The models are equipped with magnets on the back so that they can be easily arranged on a classroom magnetic board



#### Stages of Mitosis

- Interphase
- Prophase
- Early prometaphase
- Later prometaphase
- Metaphase
- Early anaphase
- Later anaphase
- Telophase
- Cytokinesis

#### ORDERING INFORMATION:

The model series is supplied in a storage system, 15.7 × 23.6 in. (40 × 60cm), which can be fastened to the wall. Dimensions: 23.6 × 15.7 × 2.4 in. (60 × 40 × 6cm). Weight: 59.9 oz. (1.5kg).

#### INCLUDES:

Detailed description and handouts for lessons

Cat. No.	Description	Price
S99598	Mitosis Model	524.00/Ea

### LAB-AIDS™ Normal Mitosis Kit

Observe nuclear division while perfecting lab techniques.

Observe nuclear division while making a stained microscope slide of a root tip to show mitotic activity in a single laboratory period.

- Observe chromosomes in cells
- Identify the stages of mitosis
- Gain hands-on experience in microtechnique and staining

**ORDERING INFORMATION:** Class size: 30 students.

#### INCLUDES:

- Root tips
- Plastic tissue-treating dishes
- Microscope slides and cover slips
- Four bottles of solution A (alcohol and hydrochloric acid)
- Four bottles of solution B (acetic acid, chloroform, alcohol)
- Tissue-macerating blades
- Four vials aceto-orcein stain
- Tissue transfer brushes
- Student worksheets and guides



#### REQUIRES:

Microscope

Cat. No.	Description	Price
S19354	Normal Mitosis Kit	179.00/Ea

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## Kemtec™ Osmosis and Diffusion Kit

Introduction to the relationship between solute and solvent, an interaction that is important to both plant and animal life.

Students will utilize starch and glucose solutions with dialysis tubing to model the cell membrane and observe the processes of osmosis and diffusion (essential concepts in understanding how cells survive).

- Students can experiment with membranes and molecules
- Illustrates cellular absorption in animal tissue
- Helps to visualize exchange between water and solutes
- Kit contains materials to carry out two complete experiments with glucose and starch
- Three part lab takes no more than two class periods to complete
- This laboratory activity is ideal for high school biology classes of all levels
- For grades 9 to 12
- Class size: 24 students

### INCLUDES:

Instructor manual, student data sheets, methods of assessment manual, material safety data sheets, glucose test strips, dialysis tubing, pipets, two dram vials, iodine solution, glucose, starch

**REQUIRES:** Standard laboratory supplies



Cat. No.	Description	Price
S06766	Osmosis and Diffusion Kit	129.00/Ea

## LAB-AIDS™ Osmosis and Diffusion Kit

Dramatically illustrates semipermeability, osmosis and molecular diffusion.



See firsthand how selective permeability allows some substances to pass through a membrane, while others cannot; observe diffusion through a membrane in two directions at the same time.

- Processes are clearly demonstrated using simple color changes
- Easy-to-follow experiments outlined in detail
- Reagent bottles are unbreakable, spillproof and drop-controlled

**ORDERING INFORMATION:** Class size: 30 students.

### INCLUDES:

- 30 semi-permeable membranes
- Two bottles each of glucose solution and liquid starch
- 30 containers
- 60 glucose testing strips
- 30 individual worksheets and guides

Cat. No.	Description	Price
S19359	Osmosis & Diffusion Kit	116.00/Ea

## Motor Neuron Model



Reflecting the latest electron microscopic revelations, this motor neuron diorama is more than just a model.

The membranous envelope has been cut away from the neuron to expose the cytological ultrastructure, organelles, and inclusions within the cell body. Branching dendrites of the neuron extend into the background, where they appear to become part of a neuron network. Synapses and an axon project from the neural surface and continue into the background to converge with other axons and synaptic vesicles. A section of the axon lifts off to expose the tightly wound layers of the myelin sheath, neurolemma, and the Schwann cell. Via cutaway view, you can observe synaptic vesicles carrying neurotransmitters about to stimulate muscle fibers to action.

Magnified more than 2500 times, the Motor Neuron Model is mounted on a hardwood base and measures 17 × 8 × 11 in.. An illustrated key, which identifies a total of 54 features, is included.

### INCLUDES:

An illustrated key, which identifies a total of 54 features

Cat. No.	Description	Price
S65085	Motor Neuron Model	1008.60/Ea



## Biochemistry

## Kemtec™ Qualitative Analysis of Carbohydrates Kit

Teaches how to characterize carbohydrates, starches and sugars.



Demonstrates the analytical techniques used for the characterization of carbohydrates. Enables students to identify unknown carbohydrates.

### Six Experiments:

- Anthrone test for carbohydrates
- Iodine test for starch
- Benedict's test for reducing carbohydrates
- Barfoed's test for reducing monosaccharides
- Seliwanoff's test for ketoses
- Bial's test for pentoses
- for grades 10 to 14
- Class size: 24 students

### ORDERING INFORMATION:

Class size: 24 students working in groups of three.

### INCLUDES:

- Sugars: glucose, maltose, sucrose, fructose, ribose
- Starch
- Anthrone
- Benedict's reagent
- Barfoed's reagent
- Seliwanoff's reagent
- Bial's Reagent
- Iodine Solution
- Amyl Alcohol Solution
- Ferrous chloride solution
- Instructor Manual
- Answer Key
- Student Data Sheets
- Material Safety Data Sheets
- Methods of Assessment Manual

### REQUIRES:

Hot plate or burner, concentrated and 3M hydrochloric acid, concentrated sulfuric acid, glassware

Cat. No.	Description	Price
S25809	Qualitative Analysis of Carbohydrates Kit	192.00/Ea

## Eisco Molecular Model Set

Teaching aid for Biochemistry teachers.

- Molecular Model Set
- Aids biochemistry teacher



Cat. No.	Description	Price
S13484	Molecular Model Set	96.00/Ea

## 3B Scientific™ Biochemistry Molecular Model Kit

Compact/semi-space-filling models feature the "mushroom style" hydrogen atom-link part.



257 atom parts cover a wide range of biochemical structures including amino acids, monosaccharides, fatty acids, glycerol, steroids, purines, pyrimidines, peptides, disaccharides, nucleosides, nucleotides, coenzymes, proteins, polysaccharides and nucleic acids.

### INCLUDES:

- 68 carbon, black (42 tetrahedral, 24 trigonal, two linear)
- 34 nitrogen, blue (12 tetrahedral, 12 trigonal, 10 angular)
- 40 oxygen, red (20 angular, 10 linear, 10 one-hole)
- 10 hydrogen, white (linear)
- Two sulfur, yellow (angular)
- Six phosphorus, purple (tetrahedral)
- Two metal connectors, gray (one tetrahedral, one octahedral)
- 100 NV-links, white
- 150 NV-links, clear
- 10 V-links, gray
- Two link remover tools, cream

Cat. No.	Description	Price
S68292	Molecular Model Kit	121.00/Ea

## LAB-AIDS™ Food Nutrient Analysis Kit

Test and identify food nutrients.

Learn techniques for easily testing and identifying nutrients.

- Use standard analytical methods to identify sugar, starch, lipid, protein and vitamin C
- Allows students to work in teams
- Indefinite shelf life
- Class size: 30 students

### INCLUDES:

- 30 test tubes and 30 student worksheets
- Dropper-controlled bottles of sugar, starch, lipid, protein and vitamin C solutions
- All necessary reagents
- Wax pencil
- Instruction manual with Material Safety Data Sheets

### REQUIRES:

Hot water bath (for test of simple sugars)



Cat. No.	Description	Price
S19340	Food Nutrient Analysis	117.00/Ea

## Enzymes and the Process of Digestion

Learn about the vital role that enzymes play in the human digestive process.

All the food in the world is of no use if the human body does not have the ability to extract necessary nutrients from it. With this activity, students expose three nutrients (carbohydrates, proteins and lipids) to different digestive enzymes. They compare these samples to nutrients to which no enzymes are added and use chemical tests to determine if the enzymes were effective in digesting the compounds. Upon completion, students understand the importance of the digestive system and the vital role enzymes play in releasing nutrients from food and converting them to a form usable by the body. Contains enough materials for 15 groups.

### Kit Includes:

- Pancreatin, powder, 5g
- Bile Salts, powder, 0.25g
- Albumin egg powder, 2.5g
- Starch, soluble, 2.5g
- Pepsin 1:10,000, 1g
- Amylase bacteriological powder, 25g
- Sodium hydroxide 0.1N, 25mL
- Hydrochloric acid 0.1N, 25mL
- Biuret for protein test, 25mL
- Phenolphthalein 1%, 25mL

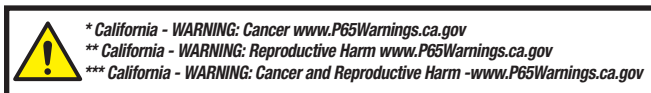


- Dilute lugols solution, 25mL
- Olive oil, pure, 25mL
- 10 pipets (plastic, graduated)

### COMPLIANCE:

DOT: Small quantity exemption 173.3. Package conforms to 49CFR 173.4.

Cat. No.	Description	Price
S05800*	Enzymes and the Process of Digestion	66.00/Ea



## ATP Muscle Set Educational Kit

Experiments to observe and measure how muscles contract. Innovating Science ATP Muscle Set Educational Kit, helps students to understand the concept of how muscles are shipped in glycerol which extracts most of water soluble material leaving muscle tissue that can be identified and studied using a microscope.

Contains enough materials for 15 groups

### INCLUDES:

3 sets of muscles; (Coupon item shipped separately that must be stored at -4°C until you are ready to use it.); Psoas Chemical A (Salts); Psoas Chemical B (ATP Solution); Psoas Chemical C (Salts); 1 pack Microscope slides; 1 pack Covers slips

Cat. No.	Description	Price
S28492*	ATP Muscle Set Educational Kit	125.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Microbiology

## Carolina™ Nutrient Agar, Prepared Media Plates 100 x 15mm

An industry standard for nearly a century, this excellent prepared media supports a wide range of microorganisms



Each plate has an imprinted lot number and expiration date to ensure quality and viability for you and your students.

- Supports a broad spectrum of microorganisms
- Comes in a convenient 10-pack of sterile, ready-to-use plates

### INCLUDES:

Carolina™ Prepared Media booklet

Cat. No.	Description	Price
S21800ND	Nutrient Agar	32.00/Pk

## Carolina™ Prepared Media Plates

Prepared Media Plates are carefully tested for sterility and to verify their ability to support the characteristic growth of appropriate organisms.

- Fresh, sterility tested- in stock and ready to ship
- 100 × 15mm plates
- Free of antibiotics, pesticides, and other chemicals
- Order now, ship later

**Storage:** Refrigerate immediately between 2° and 8°



Cat. No.	Description	Price
S21807ND	MacConkey Agar	30.00/Pk
S21801ND	Nutrient Agar 1.5%	27.50/Pk



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## Carolina™ Prepared Media Tubes and Bottles

Sterile, ready-to-use media.



S21803ND

- Fresh, sterility tested — in stock and ready to ship
- Free of antibiotics, pesticides, and other chemicals
- No autoclave needed
- Certificate of Analysis available upon request

### Bottles

- Glass bottles
- Sealed to prevent contamination and drying
- Free booklet on bottled media included

### Tubes

- Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms
- Refrigerate immediately between 2° and 8°C

Cat. No.	Description	Price
<b>Tubes</b>		
S21803ND	Nutrient Broth	33.25/Pk
S21811ND	Nutrient Agar Slant	28.50/Pk
S21804ND	Phenol Red Broth Base Lactose with Durham Tube	41.25/Pk
S21809ND	Phenol Red Broth Base Dextrose with Durham Tube	35.00/Pk
S21810ND	Phenol Red Broth Base Sucrose with Durham Tube	40.00/Pk
<b>Bottles</b>		
S21812ND	Mannitol Salt Agar, 125mL	13.00/Ea
S21813ND	MacConkey Agar, 125mL	11.75/Ea
S21805ND	Nutrient Agar, 125mL	11.00/Ea
S21808ND	Nutrient Agar, 500mL	28.75/Ea
S21814ND	Tryptic Soy Agar, 125mL	11.25/Ea

**⚠ ALERTS:**  
 Because these items are living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

## Carolina™ Prepared Media: Phenol Red Broth Base Dextrose with Durham Tube

Sterile, ready-to-use media.

No autoclave needed. Certificate of Analysis available upon request. Each tube of prepared media is carefully tested for sterility and to verify its ability to support the characteristic growth of appropriate organisms.

- Variety of options—bottles, plates, tubes, and dehydrated media
- Fresh, sterility tested—in stock & ready to ship
- Free of antibiotics, pesticides, and other chemicals
- Vast selection of microbiology supplies and cultures available



Cat. No.	Description	Price
S21809ND	Phenol Red Broth Base Dextrose	35.00/Pk

## Carolina™ Simmons Citrate Agar, Prepared Media Tubes

Carefully tested for sterility and ability to support the characteristic growth of appropriate organisms.

- Sterile
- Ready-to-use media
- Slant agar tubes
- No autoclave needed



Cat. No.	Description	Price
S42826	Simmons Citrate Agar, Prepared Media Tubes	25.50/Ea

## Carolina™ Prepared Media: Tryptic Soy Agar Slant

Ready to use media free of antibiotics, pesticides, and other chemicals.

- Sterile, ready-to-use media
- Tested for sterility and to verify its ability to support characteristic growth of appropriate organisms



Cat. No.	Description	Price
S42853	Tryptic Soy Agar Slant, Prepared Media Tubes	24.50/Ea

## fisherbrand Plastic Petri Dishes

Ideal plastic Petri dishes for lab use.

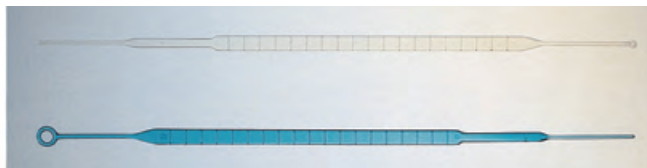
- Dimensions: 100 x 15mm
- Sterile
- Polystyrene
- Stacked
- 500 per case



Cat. No.	Description	Price
S33580A	Plastic Petri Dishes	137.00/Cs

## Sterile Disposable Inoculating Loops

No more twisted wires.



These sterile, plastic and affordable inoculating loops eliminate the problem of twisted, tangled loops and wires.

- Blue loops are 10 in. L and have a plastic needle on one end
- For single use only
- 0.5mm

### ORDERING INFORMATION:

Sold in packs of 20.

Cat. No.	Description	Price
S17356A	Sterile Disposable Inoculating Loops	5.90/Pk

## GSC Go Science Crazy Inoculating Needles with Nichrome Wire

For dissection experiments.



- Nichrome Wire 24 gauge x 5cm
- Looped end in a 15cm glass handle

Cat. No.	Description	Price
S24571	Needles with Nichrome Wire	2.60/Ea

## BioPaddles™ Dual-Agar Paddles for Environmental Education

Contain microbe-specific media enclosed in a sterile vial.



Flexible, ready-to-use paddles identify and quantify microbes in air, soil, water or on any surface.

- Longer shelf life than traditional Petri dishes (one year)
- No refrigeration required
- No need for inoculating loops or Bunsen burners
- Requires simple incubation and a magnifier
- Unique design enhances colony morphology characterization
- Ten paddles per box
- 40mL
- Store at 18–125°C

**Nutrient Agar:** For routine culture of non-fastidious bacteria.

**Sabouraud Dextrose Agar:** For selective cultivation of fungi (yeasts and molds).

**Tryptic Soy (TSA)/Rose Bengal (RB) Agar:** For cultivation of a wide variety of microorganisms (TSA) and selective isolation of yeasts and molds (RB).

**Nutrient TTC/MacConkey:** TTC: For field sampling cultivation and enumeration of coliform bacteria total coliform count; Gram (-) bacterial colonies appear as red dots; Gram (+) bacteria are usually inhibited. MAC: Medium gives improved differentiation between coliforms and nonlactose fermenting organisms; Gram (+) cocci are usually inhibited.

### ORDERING INFORMATION:

Ships on Monday and Tuesday ONLY.

### INCLUDES:

Free basic microbe identification app and access to technical information sheet

Cat. No.	Description	Price
S04347	Nutrient TTC/MacConkey	44.75/Ea
S04344	Nutrient Agar	45.75/Ea
S04346	Tryptic Soy (TSA)/Rose Bengal (RB) Agar	45.75/Ea

## BioPaddle™ Total Coliform Activity

For fast and reliable cultivation and enumeration of coliform bacteria.



- Contains BioPaddles with Nutrient-TTC/MacConkey Agar for field sampling cultivation and enumeration of coliform bacteria Total Coliform Count (TCC)
- Gram (-) bacteria colonies appear as red dots; Gram (+) bacteria and Gram (+) cocci are usually inhibited
- Medium gives improved differentiation between coliforms and nonlactose fermenting organisms

### ORDERING INFORMATION:

Ships on Monday and Tuesday ONLY. Additional TTC/MacConkey Agar can be purchased separately.

### INCLUDES:

- Ten paddles
- Teacher resource CD-ROM with complete coliform test field activity
- Teacher and student review PowerPoint™ and iPad™/iPod™-formatted material that provides helpful background information on coliforms, field testing, Total Viable Count (TVC) and Total Coliform Count (TCC) enumeration
- Free BioPaddle Colony Identification app

Cat. No.	Description	Price
S04348	Agar Paddle; Nutrient-TTC/MacConkey	63.25/Ea

## Antibiotic Effects Kit

Show the antibiotic inhibition of microorganisms with this kit.

Use this kit to present an effective teaching unit on the effects of antibiotics on microorganisms. The kit utilizes antibiotic discs to produce zones of inhibition (clear areas of no growth), which are measured to determine the susceptibility of the microorganisms to the different antibiotics.



### INCLUDES:

- Cultures of *Enterobacter aerogenes*, *Bacillus cereus* and *Sarcina lutea*
- 24 Petri dishes and Redigel™ to prepare culture dishes
- Six sterile swabs to facilitate the sterile transfer of the bacteria to dishes
- 24 discs of each of the following antibiotics: tetracycline, chloramphenicol and penicillin
- Teacher's guide
- Student worksheet, which may be reproduced for classroom use

Cat. No.	Description	Price
S70120	Antibiotic Effects Kit	73.90/Ea

## Student Bacteria Experiment Kit

Allows groups of students to culture their own bacteria without an incubator.

Melt the media in a microwave, pour it into media plates and test for growth in four popular experiments.



### Experiments:

- Test-common use items such as bathroom handles, doorknobs and water fountains
- Clean hand/dirty hand test: How many bacteria does soap eliminate?
- Clean mouth/dirty mouth test: How many bacteria does mouthwash eliminate?
- Which mouth contains more bacteria: a human's or a dog's?

### ORDERING INFORMATION:

Class size: Four groups of five to six students.

### INCLUDES:

- Two 200mL bottles of prepared nutrient agar
- 20 radiation-sterilized Petri dishes
- 10 sterile swabs
- Four lab instruction sheets

Cat. No.	Description	Price
S68775	Bacteria Experiment Kit	51.00/Ea

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## Antibiotic Sensitivity Discs

Study antibiotic sensitivity and resistance.



- Vials are sealed for storage
- Designed to dispense one disc at a time, without contact or spoilage of remaining discs

### ORDERING INFORMATION:

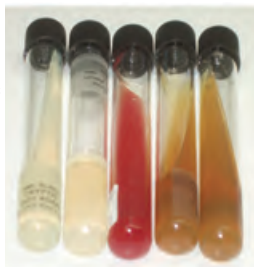
Vials and bottles are supplied in packs of 50.

Cat. No.	Description	Price
S70151A	Ampicillin	21.25/Pk
S70152A	Chloramphenicol	21.25/Pk
S70154A	Erythromycin	21.25/Pk
S70158A	Penicillin G	21.25/Pk
S70159A	Streptomycin	21.25/Pk
S70160A	Tetracycline	21.25/Pk
S70150A	Blank	17.25/Pk

## Prepared Culture Media in Tubes

Ready-to-use media prepared in disposable borosilicate glass tubes.

- Tubes measure 16mm O.D. x 125mm long and have black plastic screw caps
- Each tube is labeled with product name, expiration date and lot number
- Refrigerate until ready to use



### ORDERING INFORMATION:

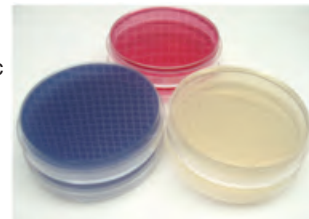
Sold in pack of 20 tubes.

Cat. No.	Description	Quantity	Price
S716933A	Nutrient Agar, Slant	20 Tubes	58.50/Pk
S716942A	Nutrient Broth	20 Tubes	92.00/Pk
S716992A	Tryptic Soy Broth	20 Tubes	81.00/Pk

## Prepared Culture Media in Plates

Labeled with product name, expiration date and lot number.

- Sterile plates are ready for immediate use
- Supplied in disposable plastic Petri dishes, 100mm O.D. x 15mm deep
- Packed in clear, heat-sealed cellophane bags
- Store at 2–8°C



Cat. No.	Description	Price
S716951A	Plate Count Agar Cell Culture Media	31.75/Pk
S716961A	Potato Dextrose Agar Cell Culture Media	33.00/Pk
S716971A	Sabouraud Dextrose Agar Cell Culture Media	31.50/Pk
S716931A	Nutrient Agar Cell Culture Media	33.00/Pk
S716981A	Tryptic Soy Cell Culture Media	32.50/Pk

## Acid Fast Stain Chemicals Kit

Used to identify bacteria by staining the acid fast mycobacterium bright red and putting them against a blue background.



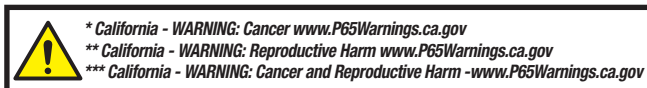
Cat. No.	Description	Price
S98662***	Acid Fast Stain Chemicals	6.65/Ea

## pH Indicator Set Kit

- 49 CFR 173.4
- Includes 30mL phenolphthaleine, 1% solution; 30 mL universal indicator; 30mL 0.04% bromothymol blue



Cat. No.	Description	Price
S98668***	pH Indicator Set	7.75/Ea



Human Anatomy

## Anatomy Models Set

Helps students gain a deeper understanding of how organs and systems interact.

Ideal for human body centers focusing on major organs or the circulatory, nervous or skeletal systems. Each realistically detailed plastic model includes a display stand and guide with facts and step-by-step, photo-illustrated assembly instructions.

### Brain (S95867)

- Features cerebellum, frontal lobe, parietal lobe, temporal lobe, occipital lobe, corpus callosum, brain stem, hippocampus, ventricles, insula, corpus striatum, internal capsule and lentiform nucleus
- 31-piece model measures 3.75 in.H (9.75cm) when assembled

### Human Body (S95868)

- Features brain, skull, heart, rib cage, lungs, liver, stomach, pancreas, kidneys, small intestine, large intestine and spine
- 31-piece torso model measures 4.5 in.H (11.4cm) when assembled

### Skeleton (S95869)

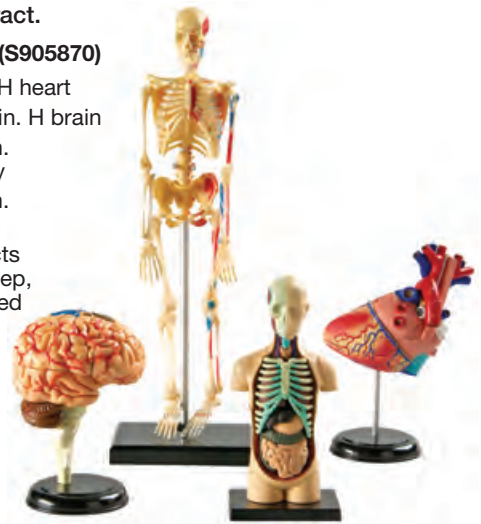
- Features skull, rib cage, humerus, spinal column, radius, ulna, hand, pelvis, femur, tibia, fibula, foot and partial circulatory system
- 41-piece model measures 9.2 in.H (23.4cm) when assembled

### Anatomy Model (S905870)

- 29-parts 5 in. H heart
- 31-parts 3.75 in. H brain
- 31-parts 4.5 in. H human body
- 41-parts 9.2 in. H skeleton
- Guide with facts and step by step, photo-illustrated assembly instructions

### ORDERING INFORMATION:

Grades 3+.  
Display stand included.



Cat. No.	Description	Price
S95867	Brain Anatomy Model	25.65/Ea
S95868	Human Body Anatomy Model	27.70/Ea
S95869	Human Skeleton Model	27.70/Ea
S95870	Anatomy Model Set	96.35/Ea

## 3B Scientific™ Brain Models

Different separations of the brain expose different levels of detail and complexity.

- Vinyl plastic models are nonbreakable and natural cast
- Rest on a form-fitting molded base
- Dimensions: 5 × 6 × 5 in. (12.7 × 15.2 × 12.7cm)

### Two-Part Brain (S17108)

- Median section divides brain into two sections

### Two-Part Brain (S98678)

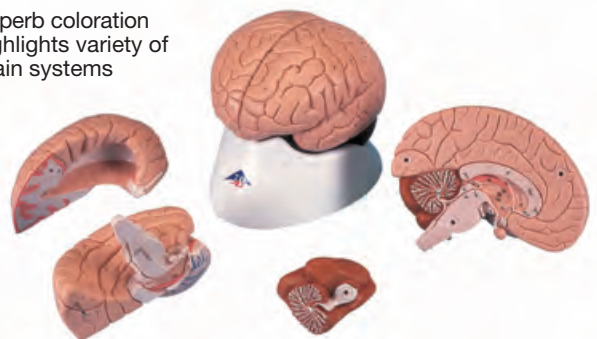
- Structures of the brain shown in one color
- Provides an introduction to the human nervous system and anatomy of the brain
- Delivered on a removable base

### Four-Part Brain (S17109)

- Median section dissectible into two vertical halves
- Right half is dissectible into brain lobe and brain stem with occipital lobe

### Eight-Part Brain (S17110)

- Each median section is dissectible into frontal with parietal lobes, temporal with occipital lobes, half of cerebellum and half of brain stem
- Superb coloration highlights variety of brain systems



Cat. No.	Description	Weight (English)	Weight (Metric)	Price
S17109	Frontal with parietal lobes, brain stem with temporal and occipital, lobes, half of cerebellum	0.001 lb.	0.0009kg	244.00/Ea
S17108	Form fitting molded base	1.54 lb.	0.7kg	149.00/Ea
S17110	Frontal with parietal lobes, temporal with occipital lobes, half of brain stem, half of cerebellum	0.001 lb.	0.0009kg	288.00/Ea
S98678	Introductory Brain; 2-Part	---	---	115.00/Ea

## Eisco Four-Part Human Brain Model

Four parts support a deeper understanding of brain anatomy.

- Median section of human brain
- Right section shows cerebellum and the stem with occipital lobe
- Features numbered
- Supported on base

**INCLUDES:**

English Key Card



Cat. No.	Description	Price
S95928	Human Brain, Four Part	105.00/Ea

## Human Heart/Brain Cross-Section Models

Colorful foam model comes apart to create a cross section view for hands-on classroom demonstrations.



- Included activity guides provide activity ideas, facts and detailed information on the function of the structure being modeled
- Key structures are labeled on one half of the model with the other half left unlabeled for testing purposes

Cat. No.	Description	Price
S90819	Human Brain Cross Section Model	21.50/Ea
S90818	Human Heart Cross Section Model	21.50/Ea

## 3B Scientific™ Brain with Arteries

This medially divided deluxe brain model shows the brain arteries. The basilar artery of the brain is removable for added detail.

This natural-cast, vinyl plastic model disassembles into nine pieces. Median section shows both right and left side of frontal and parietal lobes, temporal and occipital lobes, medulla, and cerebellum. Detachable basilar artery with main branches complete the kit. Mounted on molded base.

5 × 6 × 5 in.

- 9 parts



Cat. No.	Description	Price
S17110-1	Brain Model with Arteries	429.00/Ea

## 3B Scientific™ Life-Size Plastic Skulls

Three-part, life-size replica cast from the skull bones of an adult male.

- Upper portion of skull has been sectioned horizontally for study of internal structures
- Position and spacing of teeth have been reproduced from a natural denture
- Jaw articulates by means of springs and is detachable
- Skull separates into three parts: calvarium, base of skull and lower jaw
- Dimensions: 7.8 × 5.3 × 6 in. (20 × 13.5 × 15.5cm)



**Anatomically Numbered**

- Major anatomical details such as bones, fissures and foramina are numbered
- Skull sutures are marked with color for improved clarity
- Includes a key card

**With Muscle Attachments**

- Muscle attachments (blue) and origins (red) shown in color on the right half
- Skull structures and components on the left half are numbered, totaling more than 140 items
- An excellent demonstration model for teaching purposes
- Includes a key to the number code

Cat. No.	Description	Price
S17135	Anatomically Numbered	120.00/Ea
S171351	Unmarked	162.00/Ea



## Eisco Human Life Size Skull Color-Coded Model

This life size skull is hand painted and comes in 3 parts.

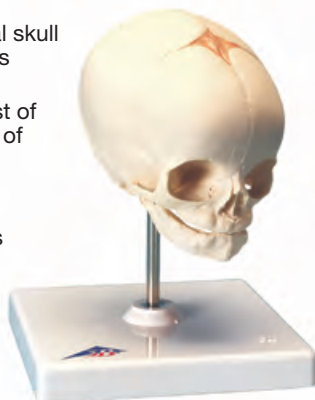


Cat. No.	Description	Price
S13501	Color-Coded Life Size Skull	77.00/Ea

## 3B Scientific™ Fetus Skull

Study the anatomy of a human fetal skull with this realistic replica.

- The anatomy of a human fetal skull can be studied easily with this realistic fetal skull replica
- The fetal skull is a natural cast of a fetal head in the 30th week of pregnancy, showing the characteristics of prenatal development
- The fontanel, which becomes bone over time, is clearly visible on the fetal skull
- Sutures will form along the bony plates, helping fuse the fetal skull as the child ages



Cat. No.	Price
S17135Q	61.00/Ea
S17135T	71.50/Ea

## 3B Scientific™ Beauchene 22-Part Adult Human Skull Model

Can be disassembled into 22 individual bones.

The human skull consists of many individual bones that gradually grow together as development proceeds. This popular model makes the complex anatomical structure of the skull easy to understand. Easily disassembled, the individual bones can be reassembled by means of inconspicuous, stable connectors attached at the slightly simplified skull sutures. All 22 bones are depicted in their natural bone color in this "Exploded Human Skull."



- Natural cast
- Dimensions: 8.3 x 5.5 x 6.3 in. (21 x 14 x 16cm)
- Weight: 1.54 lb. (0.7kg)

Includes the following individual bones:

- Parietal bone (left and right)
- Occipital bone
- Frontal bone
- Temporal bone (left and right)
- Sphenoid bone
- Ethmoid bone
- Vomer bone
- Zygomatic bone (left and right)
- Upper jaw (maxilla) with teeth (left and right)
- Palatine bone (left and right)
- Nasal concha (left and right)
- Lacrimal bone (left and right)
- Nasal bone (left and right)
- Lower jaw (mandible) with teeth

Cat. No.	Description	Price
S98673	Bone Colored Adult Human Skull Model	486.00/Ea
S98674	Didactic Colored Adult Human Skull Model	557.00/Ea

## Eisco Prehistoric Man Skull Set

Set of six natural sized replicas of prehistoric skulls.



- Prehistoric man
- Natural sized replica of prehistoric skulls
- Includes: Afarenis cranium, Africanus cranium, Habilis cranium, Erectus cranium, Neanderthalensis cranium and Steinheim skull

**INCLUDES:**

*Afarenis cranium, Africanus cranium, Habilis cranium, Erectus cranium, Neanderthalensis cranium and Steinheim skull*

Cat. No.	Description	Price
S15607	Prehistoric Man Skull Set	237.00/Ea



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### 3B Scientific™ Half of Head and Neck

See both internal and external features. Two-sided, life-size vinyl plastic model shows both internal and external features of the head and neck.

- One side demonstrates musculature and the most important surface arteries, veins and nerves
- The opposite side shows a median section illustrating inner anatomy
- Nondetachable model mounted on stand with base
- Dimensions: 9 x 7 x 18 in. (22.5 x 17.5 x 45cm)



Cat. No.	Description	Price
S17106-1	Half of Head and Neck	470.00/Ea

### 3B Scientific™ Six Part Eye Model

Dissects into sclera with cornea and eye muscle attachments, choroid with iris and retina, lens and vitreous humour. 3B Scientific Eye model, Six Part is three times full size for optimal

Dissects into several parts:

- Both halves of sclera with cornea and eye muscle attachments
- Both halves of the choroid with iris and retina
- Lens
- Vitreous humour
- 6 parts



**ORDERING INFORMATION:**

Dimensions (L x W x H): 3.5 x 3.5 x 5.9 in. (9 x 9 x 15cm). Weight: 3.5 oz. (0.1kg).

**INCLUDES:**  
Base

Cat. No.	Description	Price
S17118C	6-Part Eye Model	126.00/Ea

### Eisco Human Eye Model in Bony Orbit

Enlarged eye model for detailed anatomical studies.

- Nine parts in bony orbit
- Removable upper half eye ball and dissectible into six parts
- Two muscles controlling the eyeball are removable
- Mounted on base
- Numbered with English Key Card
- Size: approx. 33L x 23W x 20cm H (12.9 x 9 x 7.8 in.)



Cat. No.	Description	Price
S15546	Human Eye Model in Bony Orbit	185.00/Ea

### Eisco Seven-Part Human Eye Model

Three times life size for hands-on exploration of the eye.



- Upper half of sclera with cornea and eye muscle attachments
- Both choroids with iris and retina
- Lens and vitreous humor are removable
- Features numbered
- Supported on base

**INCLUDES:**  
English Key Card

Cat. No.	Description	Price
S95929	Seven-Parts Human Eye Model	84.00/Ea

## Soft Foam Cross-Section Eye Model

Open up nature for inner exploration.

- One side shows the name of each part; other side is labeled only with letters so kids can quiz themselves
- Features cornea, iris, pupil, retina, lens, optic nerve, vitreous humor, sclera, choroid, macula ciliary muscle, optic disc and zonules
- Measures 5 in. diameter

### ORDERING INFORMATION:

Grades 2+.

### INCLUDES:

Activity Guide with lots of facts and a reproducible eye diagram to label.

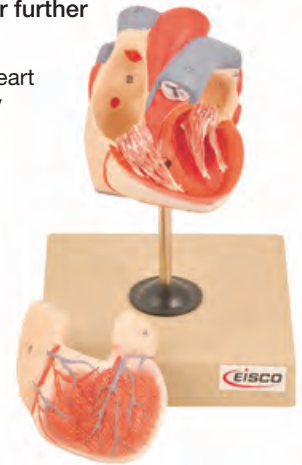


Cat. No.	Description	Price
S95872	Soft Foam Cross-Section Eye Model	21.50/Ea

## Eisco Hand Painted Human Heart Model – Life Size

Portion of the heart removes for further study of the heart.

Numbered hand painted human heart model on base. Identification key card included



Cat. No.	Description	Price
S15622	Human Heart Model – Life Size	57.50/Ea

## 3B Scientific™ Colored Eye Chart

Simultaneously screen for color blindness while testing visual acuity.

Designed by a physician and an engineer in color technology, this chart screens for the two most common types of red-green color blindness: protanopia/protanomalopia and deuteranopia/deuteranomalopia, as well as the extremely rare total color blindness.

- Printed on heavy, fully laminated stock
- Fitted with a metal eyelet for hanging
- Dimensions: 11 x 23 in. (27.5 x 57.5cm)

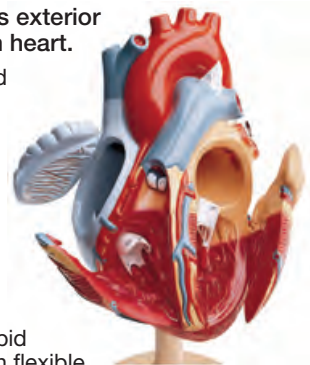


Cat. No.	Description	Price
S68283	Colored Eye Chart	41.00/Ea

## The Heart of America

Twice life size, the model shows exterior and interior views of the human heart.

- Model mounted on a hardwood pedestal support 45 structures permanently hand-numbered and keyed to accompanying reference manual for easy memorization
- Three easy-access flaps flip open to allow internal study of the heart



Chambers and valves accurately reproduced to scale Lifelike bicuspid and tricuspid valves equipped with flexible chordae tendineae Dimensions: 7 x 7 x 15 in. (17.5 x 17.5 x 37.5cm)

Cat. No.	Description	Price
S171572	The Heart of America	612.95/Ea

## 3B Scientific™ Four-Part Enlarged Ear

The complex functions of the ear exposed.

This rugged vinyl plastic model shows the outer, middle and inner ear.

- Enlarged approximately three times life size
- Mounted on a board
- Dimensions: 13 x 7 x 7.5 in. (32.5 x 17.5 x 18.8cm)

### Separates into four parts:

- Removable eardrum with hammer and anvil
- Labyrinth with cochlea
- Auditory/balance nerve (two-part)



Cat. No.	Description	Price
S17124	Four-Part Enlarged Ear	160.00/Ea



### 3B Scientific™ Blood Circulatory System, Master Series™

See a schematic presentation of blood circulation.

- Detailed schematic of circulatory system in raised relief is approximately one-half life size
- Dimensions: 13 × 22 × 2 in. (32.5 × 55 × 5cm)



Cat. No.	Description	Price
S171262	Blood Circulatory System, Master Series	353.00/Ea

### 3B Scientific™ Nervous System

This nervous system relief model shows a schematic representation of the central and peripheral nervous system.

This relief model is securely mounted on a firm backing. It features a schematic presentation of the central and peripheral nervous systems of *Homo sapiens*. It has no removable parts, so it will remain intact for many years. The model is approximately one-half life size. Dimensions are 32 × 13 × 2 in.



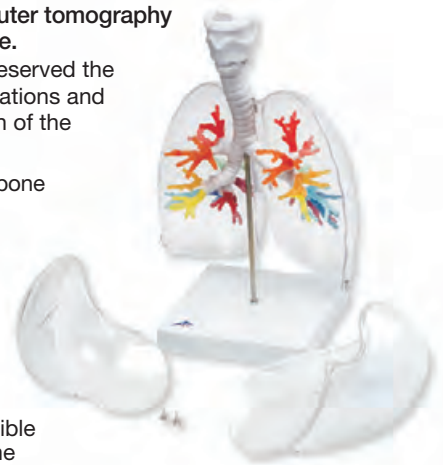
Cat. No.	Description	Price
S171131	Nervous System Relief Model	455.00/Ea

### 3B Scientific™ CT Bronchial Tree with Larynx and Transparent Lungs

Created using computer tomography data of a human male.

This unique model preserved the natural spatial 3-D relations and the reciprocal location of the segmental bronchi.

- Larynx with hyoid bone and epiglottis, and the trachea with primary and lobar bronchi are depicted in one color
- Larynx is detachable at the second tracheal cartilage and divisible in the median plane
- Epiglottis is mounted flexibly
- The various segmental bronchi are made of elastic material and depicted in various transparent colors so that they are easier to distinguish visually
- Dimensions: 22 × 18 × 37cm (8.8 × 7.2 × 14.8 in.)



Cat. No.	Description	Price
S06777	With Larynx and Transparent Lungs	817.00//Ea
S68295	With Larynx	555.00//Ea

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### 3B Scientific™ Lungs with Heart, Diaphragm and Larynx, Master Series™

Life-size model has many removable parts.

Displays the viscera of the thorax.

- Durable vinyl construction
- Mounted on base for display
- Dimensions: 16 × 12 × 5 in. (40 × 30 × 12.5cm)

Contains the following removable parts for added anatomical detail:

- Two-part larynx
- Trachea with bronchial tree
- Two-part heart
- Subclavian artery and vein
- Vena cava
- Aorta
- Pulmonary artery
- Esophagus
- Two-part lung (front halves removable)
- Diaphragm



Cat. No.	Description	Price
S17155	Lungs with Heart, Diaphragm and Larynx, Master Series	585.00/Ea

## Lung Demonstration Apparatus

Relaxation and contraction illustrated.

This simple model demonstrates the mechanisms of breathing for students.

- Shows how the lungs are emptied and filled with air by the relaxation and contraction of the diaphragm muscle
- One or two balloons attached to a Y-tube simulate the lungs
- The chest cavity is a half-gallon bell jar with open top and stout rubber sheet that acts as the diaphragm
- As the diaphragm is pulled downward, the atmospheric pressure is lowered inside the chamber, causing the lungs to expand and take in air
- When the diaphragm is released, the lungs deflate



Cat. No.	Description	Price
S41390	Lung Demonstration Apparatus	14.00/Ea

## Nine-Liter Wet Spirometer

This academic-quality wet spirometer combines reliability and accuracy with an increased volume to accommodate students with larger lung capacities.

- Large, easy-to-read scale graduations
- Includes disposable mouthpieces and a one-way plastic valve for sanitary classroom use
- Made of lightweight, yet durable, high-density polyethylene (HDPE) plastic and aluminum



### Determine Five Different Respiratory Volumes:

- Tidal Volume (TV)
- Inspiratory Capacity (IC)
- Inspiratory Reserve Volume (IRV)
- Expiratory Reserve Volume (ERV)
- Vital Capacity (VC)

Cat. No.	Description	Price
S65066	Student Wet Spirometer	888.00/Ea
S17046A	Mouthpiece	75.00/Pk

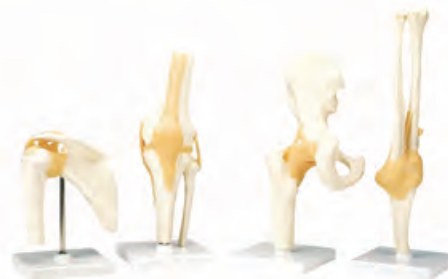


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## 3B Scientific™ Functional Joint Models

Life-size, vinyl plastic ligamented joint models simulate actual joint movement.



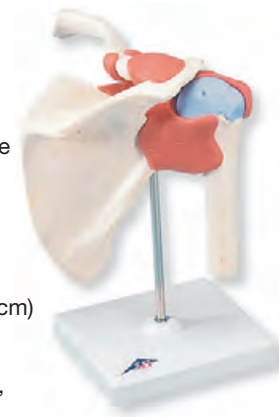
- Medical-quality joints have ligaments that actually stretch
- Demonstrate abduction, anteversion, retroversion, internal/external rotation, and more
- **Shoulder Joint** consists of the scapula with part of the clavicle and the top portion of the humerus
- **Elbow Joint** consists of a portion of the upper arm with a complete radius and ulna
- **Hip Joint** demonstrates rotations of the femoral head in the socket
- **Knee Joint** consists of part of the femur, and upper parts of the tibia and fibula

Cat. No.	Description	Price
S17134-2	Functional Shoulder Joint Model	108.00/Ea
S17134-1	Functional Elbow Joint Model	108.00/Ea
S17134-3	Functional Hip Joint Model	108.00/Ea
S17134-4	Anatomical and Cellular Human Functional Knee Joint Bio Model	108.00/Ea

## 3B Scientific™ Deluxe Functional Joints

High-quality life-size functional models for demonstrating anatomy and joint motion.

- Naturally sized right joints with ligaments
- Show the anatomy and possible physiological movements
- Cartilage on the joint colored blue
- Mounted on a base
- **Shoulder Joint:** Consists of shoulder blade, collarbone and upper arm stump, 8.6 in. (22cm)
- **Hip Joint:** Consists of thigh stump and hip bone, 12.5 in. (32cm)
- **Knee Model:** Consists of thigh stump, shinbone stump, calf bone stump, menisci and patella, 12.5 in. (32cm)
- **Elbow Joint:** Consists of upper arm stump, ulna and radius, 12.9 in. (33cm)



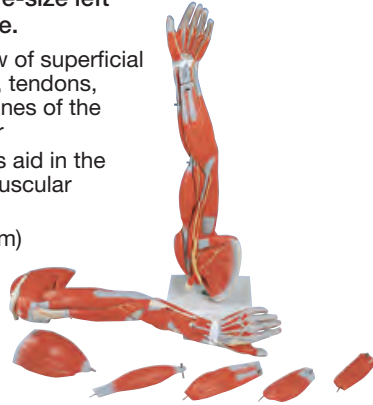
Cat. No.	Height (English)	Price
S90785	8.7 in.	157.00/Ea
S90788	12.99 in.	157.00/Ea
S90786	12.5 in.	157.00/Ea
S90787	12.59 in.	157.00/Ea

### 3B Scientific™ Muscular Arm

Six-part, three-quarter life-size left arm to study musculature.

- Provides a detailed view of superficial and subjacent muscles, tendons, vessels, nerves, and bones of the hand, arm and shoulder
- Five removable muscles aid in the understanding of the muscular process
- Height: 22.75 in. (57.8cm)

**INCLUDES:**  
Stand



Cat. No.	Description	Price
S17136	6-Part Muscular Arm	609.00/Ea

### 3B Scientific™ Deluxe Muscular Arm Model

Life-size six part muscular arm model with detachable muscles.

**Detachable muscles:**

- Deltoid muscles
- Biceps muscle of arm
- Triceps muscle of arm
- Long palmar muscle with radial flexor muscle of wrist
- Brachioradial muscle with radial extensor muscle of wrist



Cat. No.	Description	Price
S07922	Deluxe Muscular Arm	1144.00/Ea

### Eisco Muscular Arm Model, Six Parts

Dissectible muscular arm model for anatomical study.

- Demonstrates six parts including muscles, tendons, blood vessels and nerves of the arm, hand and shoulder
- Five muscles detachable to reveal structure down to bone
- Mounted on base
- Numbered with English Key Card



Cat. No.	Description	Price
S15589	Muscular Arm Model - Six Parts	332.00/Ea

### Eisco Muscular Leg Model, Nine Parts

Dissectible life size model with nine parts.

- Nine - Part model: 30 in. tall
- Shows all muscles, tendons, nerves, blood vessels and bones of leg and foot
- Parts can be removed for detailed study
- Mounted on base numbered with English key card



Cat. No.	Description	Price
S15591	Muscular Leg Model; 9 Parts	648.00/Ea

### Eisco Human Knee Joint Model

Human knee joint.

- Mounted on base
- Includes key card
- Size: 12L x 12W x 33cm H (4.72 x 4.72 x 12.9 in.)
- Weight: 7.5kg



Cat. No.	Description	Price
S15584	Human Knee Joint Model	66.75/Ea

### 3B Scientific™ Three Lumbar Vertebrae, Flexibly Mounted

Study a partial lumbar spinal column in detail. The 3B Scientific™ Three Lumbar Vertebrae, Flexibly Mounted is ideal for patient education and anatomical study. The model consists of three lumbar vertebrae, intervertebral discs, spinal nerves and dura mater of the spinal cord for detailed examination

- Human partial lumbar spinal column model for patient education and anatomical study
- Model consists of three lumbar vertebrae, intervertebral discs, spinal nerves, and dura mater of the spinal cord for detailed examination
- Anatomically correct in every detail



Cat. No.	Description	Price
S28466	Three Lumbar Vertebrae; Flexibly Mounted	47.25/Ea



## Eisco Human Life Size Spine Model

This life size fully flexible spine model details the spinal nerve branches, vertebral arteries, and the L3-L4 intervertebral disc.



Cat. No.	Description	Price
S13499	Human Life Size Spine Model	111.00/Ea

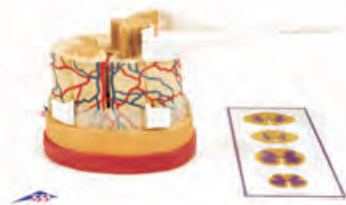
## 3B Scientific™ Spinal Cord Model with Nerve Endings

Magnified to a scale of about 5:1.

The spinal cord is formed by a central channel surrounded by “gray matter” with an outer layer of “white matter.” The base features illustrations of various cross sections through the white and gray matter at the neck, torso and lumbar and sacral regions.

- Dimensions: 10.2L x 7.5W x 5.2 in.H (26 x 19 x 13cm)

**INCLUDES:**  
Base



Cat. No.	Description	Price
S96427	Spinal Cord Model with Nerve Endings	276.00/Ea

## 3B Scientific™ Five Vertebrae

Threaded on nylon

One of each type of the following vertebrae:

- Atlas
- Axis
- Cervical
- Thoracic
- Lumbar



**ORDERING INFORMATION:**  
Weight: 12.3 oz. (0.35kg).

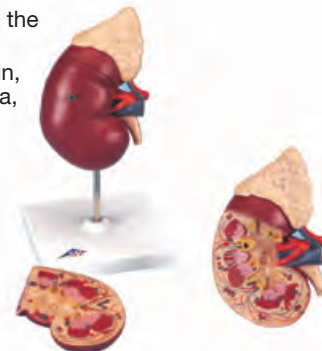
Cat. No.	Description	Price
S17112J	Vertebrae Model; 5 Parts	57.75/Ea

## 3B Scientific™ Kidney, Adrenal Gland, Master Series™

Realistic and life-size.

Study sections of the kidney with this vinyl plastic model.

- Separates into two parts via the sagittal section
- Displays renal artery and vein, partial ureter, cortex, medulla, renal pelvis and renal calyx
- Dimensions: 5 x 5 x 8 in. (12.5 x 12.5 x 20cm)



Cat. No.	Description	Price
S17159	Kidney, Adrenal Gland, Master Series	117.00/Ea

## 3B Scientific™ MICROanatomy™ Kidney

Extremely detailed model shows the morphologic/functional units of the kidney.

Six model zones illustrate the fine tissue structures that serve the production of urine.

- Longitudinal section of the kidney
- Section of the renal cortex and renal medulla
- Wedge-shaped section of a kidney lobe with a diagrammatic depiction of three nephrons with Henle's loops of different lengths and diagrammatic depiction of the vascular supply
- Diagrammatic illustration of a nephron with a short Henle's loop and didactic/diagrammatic illustration of the vascular supply
- Diagrammatic illustration of an opened renal corpuscle with nephron and light-microscopic transverse sections of the proximal, attenuated and distal segments of a renal tubule
- Diagrammatic and didactic illustration of an opened renal corpuscle
- Dimensions: 9.2 x 9.9 x 7.4 in. (23.5 x 25.5 x 19cm)



Cat. No.	Description	Price
S90780	Kidney Model	344.00/Ea



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## Eisco Human Kidney Model with Adrenal Gland, Two Parts

Review the internal structures in the kidney

- Model shows kidney with adrenal gland, plus renal and adrenal vessels and upper portion of ureter
- Front half of kidney removes to show cortex medulla and vessels, as well as renal pelvis
- Features numbered
- Supported on base



**INCLUDES:**  
Key Card

Cat. No.	Description	Price
S95931	Human Kidney, Two Parts	37.50/Ea

## Eisco Urinary Organs — Kidney and Bladder

Demonstrates all the anatomical details.  
Natural size.

**Model shows:**

- Kidneys, ureters, adrenal glands and bladder with prostate
- Sectioned abdominal right kidney



**ORDERING INFORMATION:**  
Mounted on base.

Cat. No.	Description	Price
S96553	Kidney and Bladder Model	82.00/Ea

## 3X Life-Size Kidney Model

Shows the renal capsule, cortex, medulla, pyramids with papillae, partially dissected renal pelvis, renal calices, ureter, blood vessels, and the suprarenal gland.

- Key structural features are identified and correspond to manual for identification
- Mounted on a board



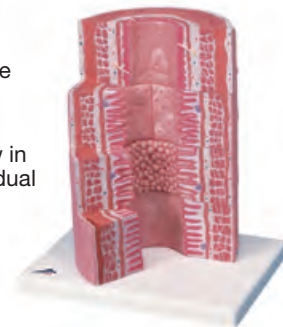
Cat. No.	Description	Price
S07148	3X Life-Size Kidney Model	91.00/Ea

## 3B Scientific™ MICROanatomy™ Digestive System

Illustrates the structure of fine tissues of the digestive system.

Model includes four characteristic sections of the digestive system: esophagus, stomach, small intestine and large intestine.

- Front of the model, from top to bottom, shows a magnified view in histological section of the individual sections of the digestive system and their fine tissue structures
- Back of the model emphasizes didactically interesting areas of the digestive system with highly magnified views
- Dimensions: 11.8 × 10.4 × 7.4 in. (29.5 × 26 × 18.5cm)



Cat. No.	Description	Price
S90778	Digestive System	348.00/Ea

## Kidneys and Blood Filtration

Learn the role of the kidney in blood filtration and waste removal.

Discover the many functional tasks performed by nephrons.

**Students will:**

- Create an artificial kidney model to filter simulated blood
- Visually determine if filtration of the simulated blood has occurred
- Chemically test the resulting filtrate to detect any waste material removed by the kidney

**INCLUDES:**

Materials for 15 groups, kit with simulated unfiltered blood (100mL), dialysis tubing (15 pieces), 15 plastic cups, 15 pipets (1mL), 30 salt test strips, 30 urea test strips



Cat. No.	Description	Price
S98651***	Kidney and Blood Filtration Kit	52.00/Ea

 \* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 3B Scientific™ Digestive System Four-Part Model

Two-part stomach reveals interior walls.

Life-size, vinyl plastic model demonstrates the digestive tract from mouth to rectum.

- Nasal and oral cavities, pharynx, larynx with epiglottis and esophagus are median sectioned
- Two-part stomach is dissectible to reveal the interior wall, liver, gallbladder, pancreas, small intestine, colon and rectum
- Model separates into four parts and is mounted
- Dimensions: 31 × 13 × 4 in. (77.5 × 32.5 × 10cm)



## 3B Scientific™ Male Pelvis Master Series™

Male pelvis comes with removable parts.

Our life-size median section of the male pelvis outlines sex organs, bladder and muscles, and is suitable for teaching small or large groups.

- Presents parts of the abdominal and dorsal muscular system with lumbar vertebrae, and partial kidney
- Removable bladder and reproductive organs
- Pelvis dissects into two parts
- Use with 3B Scientific Female Pelvis Master Series (see S17143 below) for comparative studies



Cat. No.	Description	Price
S17158-4	Four-Part Digestive System Model	552.00/Ea

Cat. No.	Description	Price
S17144	Male Pelvis Model	245.00/Ea

## 3B Scientific™ Pelvis Skeleton

Illustrate the difference between the male and female pelvis.

Both nondissectible models consist of two innominate bones, sacrum with coccyx and two lumbar vertebrae. Female model has a flexible symphysis.



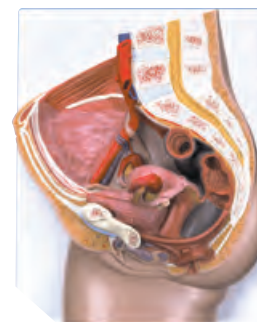
Cat. No.	Description	Price
S171123	Two Innominate Bones, Sacrum with Coccyx, Two Lumbar Vertebrae	82.00/Ea
S171124	Two Innominate Bones, Sacrum with Coccyx, Two Lumbar Vertebrae, Flexible Symphysis	80.00/Ea

## 3B Scientific™ Female Pelvis Master Series™

Removable bladder and reproductive organs.

Our life-size median section shows how organs are situated in the female pelvis.

- Presents parts of the abdominal and dorsal muscular system with lumbar vertebrae and partial kidney
- Removable bladder and reproductive organs
- Base-mounted
- Use with 3B Scientific Male Pelvis Master Series (see S17144 above) for comparative studies



Cat. No.	Description	Price
S17143	Female Pelvis Model	245.00/Ea

## Eisco Human Ovary Model

Anatomically accurate representation of female reproductive organs.

- For students to understand anatomy, physiology of ovary and reproduction
- Features anatomical structures of female reproductive organs, including ovaries, fallopian tubes, uterus, cervix and vagina
- Uterus, one Fallopian tube and ovary are bisected to show internal structures
- Size: 30 x 14 x 21cm (11.8 x 5.51 x 8.26 in.)



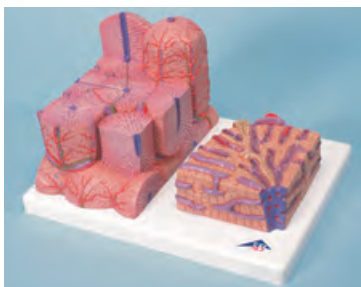
Cat. No.	Description	Price
S15618	Human Ovary Model	77.00/Ea



## 3B Scientific™ MICROanatomy™ Liver

Study the liver in detail.

Two-part model shows a highly magnified diagrammatic view of a section of the liver.

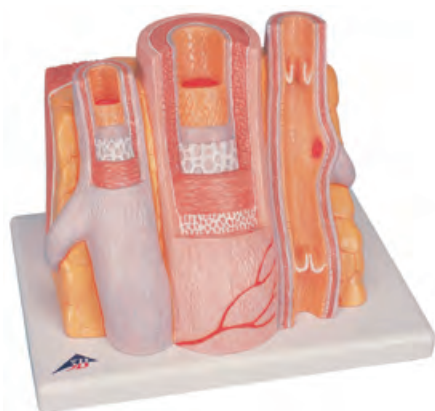


- Left part shows section of the liver that comprises several lobules
- Right part offers highly magnified view of the sectioned liver lobule on left
- Dimensions: 6 × 10.4 × 7.4 in. (15 × 26 × 18.5cm)

Cat. No.	Description	Price
S90779	Liver Model	347.00/Ea

## 3B Scientific™ MICROanatomy™ Artery and Vein

14 times larger than life.



Model illustrates the reciprocal anatomical relationship of artery and vein, and the basic functional techniques of the venous valves.

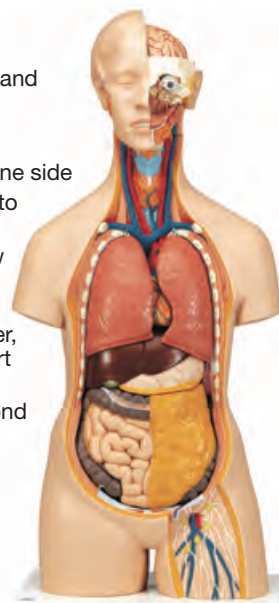
- Medium-sized muscular artery has two adjacent veins from the antebrachial area with adjoining fat tissue and muscle
- Left vein and middle artery are fenestrated in upper anterior segment to reveal wall structure in a cross section, longitudinal section and top view
- Right vein is open throughout anterior segment to display the orifice of a feeder vein and two venous valves
- Relief of two veins illustrates functional aspect of the venous valves
- Dimensions: 10.4 × 7.6 × 7.4 in. (26 × 19 × 18.5cm)

Cat. No.	Description	Price
S90777	Artery and Vein Model	378.00/Ea

## 3B Scientific™ Torso with Head

Teach anatomy in great detail.

Made of top-quality plastic to withstand many years of handling.



### 12-Part Model

- Head shows skull and brain on one side
- Lungs and heart show junctions to the major vessels
- Front heart wall comes off to show inner chambers
- Exhibits entire intestinal system including the liver with gallbladder, pancreas and removable two-part appendix flap
- All parts numbered and correspond to supplied key card to aid in lesson preparation

### 14-Part Model

- All parts are numbered to correspond to supplied key card — helps you plan class lessons and projects
- Removable head with the skull and brain exposed on one side
- Two-part removable eye with optic nerve
- Two lungs and a heart show junctions to major vessels
- Front heart wall is removable
- Shows entire intestinal system, including a pancreas and a removable appendix flap (two parts)
- Front halves of the kidney and bladder detach to show how they function

### 18-Part Model

- Removable head with nose and mouth cavities, pharynx, skull base with the rear of the skull exposed and detachable six-part eyeball with optic nerve
- Skull has removable four-part half brain with arteries
- Lower cutaneous layers removed on half of the face to show mandible, dentition, musculature, nerves and blood vessels
- Removable stomach, liver and gallbladder, small and large intestines and pancreas
- Two-part heart with detachable front wall
- Neck and back are open from the cerebellum to the sacrum, with removable seventh thoracic vertebra

Cat. No.	Description	Price
S17150H	12-Part Torso with Head	625.00/Ea
S17150C	14-Part Torso with Head	721.00/Ea
S171454	18-Part Torso with Head	840.00/Ea



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### 3B Scientific™ Deluxe Human Torsos

28- or 24-part models are precision-crafted and hand-painted.

- Detailed brushwork by dedicated artisans depicts the most life-like colors of internal organs
- Removable internal organs are meticulously molded to fit securely into their proper anatomical positions, removing unnatural gaps
- Made of unbreakable, vinyl plastic for durable, long-lasting use
- Male and female genital organs can be interchanged
- Mounted on a sturdy base for support
- Dimensions: 14.96 × 9.84 × 34.25 in. (38 × 25 × 87cm)

**INCLUDES:**

**Both models include:**

- Three-part removable head with partially exposed mouth and nasopharynx, half brain and arteries
- Two-part stomach
- Female breast plate with rib insertions
- Right and left lungs
- Two-part heart

- Liver with gallbladder
- Three-part large intestine with appendix flap
- Small intestine
- Front half of kidney
- Four-part male genital insert
- Three-part female genital insert with embryo
- Instruction guide

**28-part model also includes:**

- Open neck and back to study vertebrae, intervertebral discs, spinal cord, spinal nerves and vertebral arteries
- Removable seventh thoracic vertebra
- Eye with optic nerve
- Four-part brain

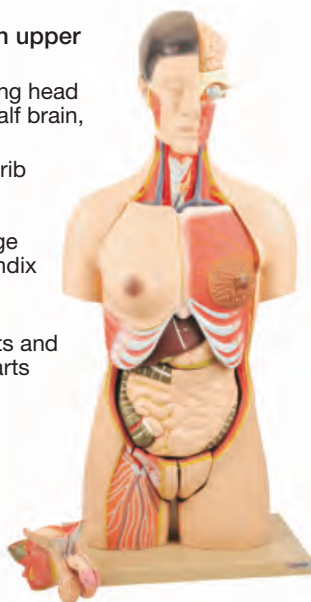


Cat. No.	Description	Price
S17150A	Deluxe Dual Sex Torso Model	1310.00/Ea
S17139	Deluxe Dual Sex Torso with Opened Back Model	1334.00/Ea

### Eisco™ Torso with Interchangeable Sex Organs Model, 24 Parts

Dual sex model detailing human upper body anatomy with open back.

- Life-size cut away spine showing head with nasal and buccal cavity, half brain, eye with optic nerve
- Removable female breast with rib insertions, heart in two parts, two-lung halves, liver with gall bladder, two-part stomach, large and small intestines with appendix flap opening and cover, half of kidney
- Male genital organs in four parts and female genital organs in two parts with embryo in third month of pregnancy
- Back shows vertebral column, spinal cord with nerve endings and removable seventh cervical vertebra
- Base mounted and numbered with English Key Card
- L x W x H: 38 x 24 x 89cm (15 x 9.5 x 35 in.)



### 3B Scientific™ Heavy-Duty Dust Covers

Protect your torso model or skeleton with this heavy-duty protective cover.

- Protect your investment with this heavy-duty cover
- Black with transparent window
- Zippered



Cat. No.	Description	Price
S15533	24-Part Torso with Interchangeable Sex Organs	928.00/Ea

Cat. No.	Description	Price
S98704	Dust Cover for Skeletons	53.75/Ea
S98705	Torso Cover; Black	48.50/Ea

## Eisco Human Skeleton Miniature Model With Stand

Miniature model for classrooms.

- Model gives general idea of bones
- Mounted on stand
- Height: 51cm (20 in.)



Cat. No.	Description	Price
S15583	Human Skeleton Miniature Model with Stand	105.00/Ea

## 3B Scientific™ Disarticulated Human Skeleton

Supports individual study and authentic assessment.



Made of durable plastic, skeleton kit includes all of the bones from an adult male skeleton.

- Show how each bone functions and fits amid the larger scheme of the body's framework
- Examine individual bones, as opposed to a fully assembled skeleton
- One hand and one foot are articulated with wire to show correct orientation of the bones
- Second hand and foot are disarticulated and packed in their own plastic bag
- Jaw is articulated with the aid of a spring
- All 24 vertebrae are strung together with a nylon cord to maintain proper sequence; the coccyx is also wired
- All 24 ribs are contained in a plastic bag
- All other bones, including the hyoid and the upper and lower extremities, are packed in a carton
- Skull's calvarium is sectioned horizontally for intercranial studies

Cat. No.	Description	Price
S17131B	Disarticulated Human Skeleton	483.00/Ea

## Eisco Human Skeleton Model, Rod Mount

Provides incredibly high amount of realism and detail for students examining human skeleton.

- Pinned joints allow for demonstration of limb movements to showcase how skeletal system interacts during motion
- Stands 170cm tall
- Mounts on wheeled base for easy movement
- Three part skull with movable lower jaw



Cat. No.	Description	Price
S09580	Human Skeleton Model, Rod Mount	415.00/Ea

## Eisco Human Skeleton Painted Model

Shows muscle origin in red and insertion in blue along left side.

- Quality hardware allows easy movement of major joints
- Three part skull is removable for closer study of jaw and teeth
- Arms and legs can be removed for storage and study
- Mounted on sturdy stand (152.4cm (60 in.) tall) with free rolling wheels
- Includes key card calling out 167 muscle features



Cat. No.	Description	Price
S15623	Human Skeleton Painted Model	579.00/Ea



## 3B Scientific™ Adult Human Skeleton

Premier line of skeletal models offers educators medical-grade quality.

- Made of durable, unbreakable, washable plastic material
- Natural movements can be demonstrated with detachable arms and legs
- Detachable skull is divisible into three parts: calvarium, base and lower jaw

### Life-Size Skeleton

- Measuring 70 in. (170cm) tall, this pelvic-mounted model is an exact reproduction, natural cast from bones of an adult male
- Special mounting of the rib cage allows the skeleton to maintain proper positioning
- All joints are properly articulated and wired, including the lower jaw, which articulates by means of springs
- Comes complete with roller stand and dust protection cover



### Mini Skeleton

- Half natural size: 33 in. (80cm)
- Carefully reproduced to keep all anatomical details and structures
- Hip joints are specially mounted so their natural rotation can be demonstrated

Cat. No.	Description	Height (English)	Price
S17133B	Life Size	69.5 in.	407.00/Ea
S17137	Mini	8.77 in.	557.00/Ea

## 3B Scientific™ Flexible Human Skeleton Model – Fred

Medical-grade, natural-cast skeleton suitable for instructional and chiropractical demonstrations.

- Made from unbreakable plastic material for classroom durability
- Deluxe skull is dissectible into three parts: calvarium, base of skull and lower jaw
- Position and spacing of teeth are reproduced from a natural denture
- Upper and lower extremities are flexibly mounted and removable
- Flexible spine allows almost all natural movements and features a herniated disc, protruding nerves and vertebral artery
- Rotation and movement of the skull on first and second cervical vertebrae can be demonstrated as well
- Height: 70 in. (177.8cm)

### INCLUDES:

- Roller stand
- Dust cover



Cat. No.	Description	Price
S171562	"Fred" Flexible Human Skeleton	754.00/Ea

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## 3B Scientific™ Deluxe Human Skeleton

Medical-grade skeleton works for both instructional illustration and chiropractical demonstration.

Highly detailed, unbreakable plastic model is natural cast and presents muscle paintings, joint ligaments, numeration of bones and flexible spine with nerve endings.

- Deluxe skull is dissectible into calvarium, base of skull and lower jaw
- Position and spacing of teeth are reproduced from a natural denture
- Special mounting of rib cage maintains proper positioning
- Detachable skull, left arm and leg
- Right side presents muscle insertions in blue and origins in red; left side of skeleton displays more than 300 nominated bones, fissures and foramina
- *M. iliocostalis* and *M. longissimus* are color-contrasted for clarity
- Shoulder, elbow, hip and knee of the right side provided with life-like ligaments and movable joints
- Flexible spine allows natural movement and features a herniated disc, protruding nerves and vertebral artery
- Rotation and movement of skull on first and second cervical vertebrae can also be demonstrated
- Available mounted with pelvic mount or on hanging stand
- Height: 67 in. (170cm)

### INCLUDES:

- Dust cover
- Manual

Cat. No.	Description	Price
S171563	Pelvis Mount on Roller Stand	1147.00/Ea
S171564	Hanging Roller Stand	1200.00/Ea
S17138A	Height: 66.9 in.	877.00/Ea
S07912	Height: 75.8 in.	994.00/Ea

### Skeleton with Muscle Origins and Insertions

Shows structural interaction between bones and muscles.

Includes all features of adult skeleton (S17133B) with the addition of color to the right half of the skeleton to show muscle origins and insertions. The perfect model for advanced human physiology courses, its tough vinyl plastic construction holds up to classroom use.

- On left side of skeleton over 600 structures, such as muscle origins (red), insertions (blue) are shown
- Hand-numbered bones, fissures and foramina are shown on right side
- Made from durable, unbreakable synthetic material
- Mounted on a stable metal hanging stand with five casters
- Natural size, anatomically correct and realistic weight of around 200 bones
- Three part assembled skull
- Individually inserted teeth
- Removable limb
- Height: 169.9cm (66.9 in.)
- Weight: 7.2kg (15.87 lb.)



## United Scientific™ Human Skeleton Model

Half-size model for demonstrating basic anatomical features of human skeleton

- Carpals and tarsals are fused, but rest of skeleton has natural movement in joints
- Heavy metal base adds extra measure of stability while skeleton is constructed of rugged plastic
- Features unbreakable ribs, stainless steel screws, brackets and springs to resist corrosion
- Detailed key included



Cat. No.	Description	Price
S13132	Human Skeleton Model	71.50/Ea

## United Scientific™ See-Through Sally™ Human Anatomy Display

Provide a memorable visual aid for teaching human anatomy. This See-Through Sally™ Human Anatomy Display Set consists of 12 spiral-bound anatomy charts, each representing a different area of the body, mounted on a rigid metal frame and floor stand.

- Memorable visual aid for teaching human anatomy
- This set consists of 12 spiral-bound anatomy charts, each representing a different area of the body
- Mounted on a rigid metal frame and floor stand



Cat. No.	Description	Price
S23934	See-Through Sally	298.00/Ea

## Thin-Man Model Anatomical Presentation of Life-Size Overlays

Human anatomy illustrated in layered form.

This near-life-size set of charts and transparent overlays gives the clarity of a three-dimensional model and the equivalent of seven anatomical charts.



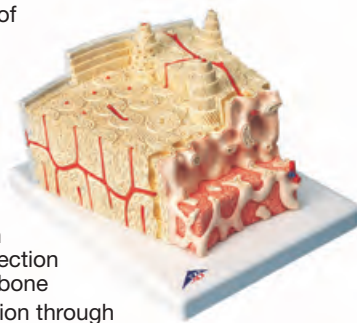
- One side of the chart shows the skeleton and nervous system
- Opposite side shows full frontal view of the body, plus four overlays
- All overlays together offer complete front view of the body's musculature
- Each overlay, when raised, reveals the next deeper layer of anatomy
- More than 200 anatomical parts are named, indexed and keyed
- Durable transparencies can be marked with grease pencils or washable ink pens
- Charts mounted on a sturdy, 63 in. (160cm) metal stand
- Lightweight for easy maneuverability

Cat. No.	Description	Price
S17091	Thin Man Overlaying Anatomy Chart	498.15/Ea

## 3B Scientific™ MICROanatomy™ Bone Structure

Extremely detailed model shows a typical structure of a tubular bone enlarged 80 times.

Three-dimensional section of a lamellar bone with typical elements identified to help understand its structure and function with the characteristic osteons, also referred to as Haversian systems.



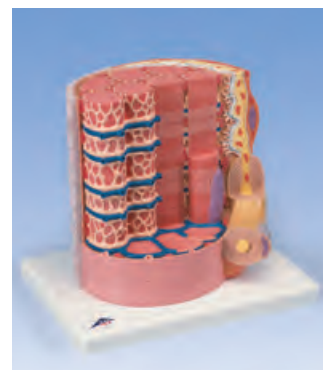
- Shows various planes in cross and longitudinal section through all levels of the bone
- Displays two-plane section through the inner structure of the bone marrow
- Graphically illustrates the interplay of components, such as spongy and compact substance, endosteum, cortical substance, osteocytes and Volkmann and Haversian canals
- Supplied on base
- Dimensions: 10.1 x 7.4 x 5.7 in. (26 x 19 x 14.5cm)

Cat. No.	Description	Price
S90774	Bone Structure Model	175.00/Ea

## 3B Scientific™ MICROanatomy™ Muscle Fiber Model

Magnified 10,000 times.

Illustrates a section of a skeletal muscle fiber and its neuromuscular end plate magnified. The muscle fiber is the basic element of the diagonally striped skeletal muscle.



- Dimensions: 9.4 x 10.4 x 7.4 in. (23.5 x 26 x 18.5cm)

Cat. No.	Description	Price
S68279	Muscle Fiber Model	324.00/Ea

## 3B Scientific™ 33-Part Muscular Model

Comprehensive anatomy study.

Make sense of human anatomy with this one-half life-size model featuring 33 parts and interchangeable reproductive organs.

- Anatomical details conform closely to the human body
- Shows superficial and deep muscles, vessels and nerves and internal organs
- Mounted on stand
- Dissectible parts: body, calvarium (skull), brain, stomach, liver, partial intestine with flap, female genitals, male genitals, eight muscles of the left leg and right arm and left arm and five muscles
- Removable arms, muscles, calvarium and thoracic cover
- Height: 33 in. (82.5cm)
- Weight: 12.13 lb. (5.5kg)



Cat. No.	Description	Price
S17150D	33-Part Muscular Model	3901.00/Ea



### 3B Scientific™ Muscle Torso, Two-Sex, with Pregnancy Insert

Two-sex model has 31 removable parts.

- Head with nose and mouth cavity
- Pharynx with skull base exposed on one side
- Four-part brain half with arteries
- Six-part eyeball with optic nerve
- Deltoids, chest and belly covering with both superficial and deep musculature
- Two lungs
- Heart with junctions to the major vessels and detachable two-part front heart wall
- Two-part front and rear half of a stomach
- Liver, gallbladder and small intestine
- Entire intestinal system with a pancreas
- Three-part transverse colon with an appendix flap and front kidney half
- Three-part female genital insert with removable fetus in the third month of pregnancy
- Four-part male genital insert with a removable penis
- Back and neck opened from cerebellum to sacrum, with removable seventh thoracic vertebra
- Gluteus maximus



Cat. No.	Description	Price
S17150F	Two-Sex Muscle Torso with Pregnancy Insert	3037.00/Ea

### 3B Scientific™ Mini-Musculature Figure Model

One-quarter life-size with full-size value.

Our Mini-Musculature Figure Model stands only 22.5 in. (56.3cm) tall, yet provides big value.

- Two-part model gives accurate, detailed representation of the male muscular system
- Depicts and numbers superficial and deep muscles and tendons, blood supply and drainage and major nerves
- Shows female mammary gland on the detachable thoracic/abdominal torso covering



All major internal organs appear lifelike and have numbered parts keyed to the manual

Cat. No.	Description	Price
S17151	Mini-Musculature Figure Model	730.00/Ea

### 3B Scientific™ Muscular Anatomy Model

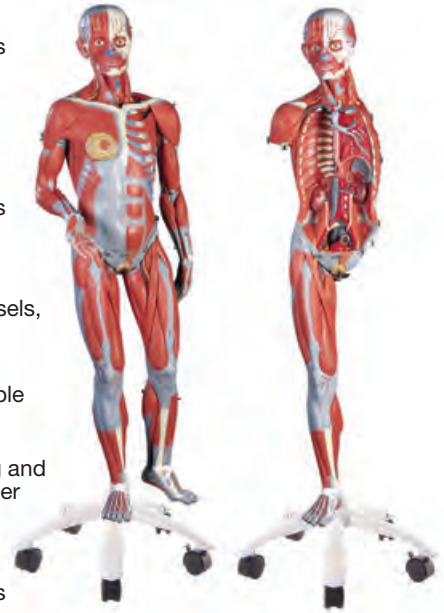
For anatomical studies

- Mounted on a roller stand for portability
- Supplied with a detailed key card
- 3/4 life size

#### 23-Part Model

Designed primarily for studies of the musculature since it has no removable internal organs.

- Head with removable calvarium
- Trunk with a right leg and portion of a right shoulder
- Right arm
- Left arm with five removable muscles
- Thoracic and abdominal cover
- Two-part female genitalia
- Left leg with eight removable muscles



#### 45-Part Model

Models the human muscular system, vessels, nerves and partly dissectible organs.

- Head with removable calvarium and three-part brain
- Trunk with right leg and portion of a shoulder
- Right arm
- Left arm with scapula and five removable muscles
- Left leg with eight removable muscles
- Thoracic and abdominal wall
- Right mammary gland
- Lungs, four parts
- Thymus
- Heart, two parts
- Diaphragm
- Liver with gallbladder
- Stomach, two parts
- Duodenum and pancreas
- Male genitalia, four parts
- Female genitalia, two parts

Cat. No.	Description	Price
S17168A	23-Part Muscular Anatomy Model	8052.00/Ea
S17168	45-Part Muscular Anatomy Model	8656.00/Ea

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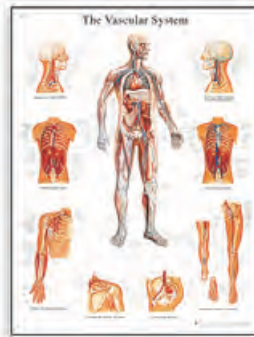
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### 3B Scientific™ Vascular System Poster

Visual aids to enhance anatomy lessons.

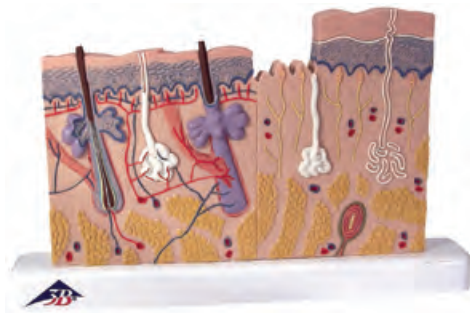
- Printed on premium glossy (200g) paper
- With two-sided lamination (125 micron) and metal eyelets
- Dimensions: 20W x 26 in.H (50.8 x 66.0cm)



Cat. No.	Description	Price
S90765	The Vascular System Chart	23.25/Ea

### 3B Scientific™ Skin Section Master Series™

Enlarged skin offers students a look at the scalp and foot.



Our desk model enables students to study the skin by observing it at approximately 40 times its normal size.

- Two sections offer a look at the hairy skin of the scalp and hairless skin of the foot
- Displays sebaceous and sweat glands, receptors, nerve and blood vessels
- Includes numbered key card
- Mounted on base
- Dimensions: 9.5 x 13.5 x 6 in. (23.8 x 33.8 x 15cm)

Cat. No.	Description	Price
S17126A	Master Series Skin Section Model	101.00/Ea

### 3B Scientific™ Skin Model

Represents sections of human skin with magnification of 80X.

Consists of three individual parts on a common stand. Anatomical differences of skin sections are didactically represented in a clear, easily understandable manner. Microscopic structures such as nerve, vessels and tactile corpuscles have been accurately and spatially represented on model.

#### Microanatomical representation of:

- Papillary layer (e.g., localized in the palm of hand)
- Reticular layer (e.g., localized at the back of hand) Longitudinal section through the human scalp with hair follicle and root sheath
- 3 part
- Weight: 2.05kg
- Size: 34 x 39 x 15.5cm



Cat. No.	Description	Price
S06780	3 Part Skin Model	293.00/Ea

### Kemtec™ AIDS Simutest Kit

Students become bio-technicians when they use this kit with totally safe components to run simulated ELISA tests for AIDS.

- Students run eight patient samples in simulated ELISA to determine which patient(s) may have contracted the HIV virus
- Includes simulated patient serums, conjugate, chromagen, and reusable treated ELISA microtiter plates
- Totally safe for student use as it contains no blood serum or infectious diseases
- Students experience the world of biotechnology and learn about HIV virus within this one hour lab investigation
- For grades 11 to 14
- Class size: 24 students

#### INCLUDES:

Serum samples A - H, plastic pipets, ELISA microtiter plates, antibody conjugate, chromagen, instructor manual, SDS

#### REQUIRES:

Goggles



Cat. No.	Description	Price
S06451	AIDS Simutest Kit	235.00/Ea



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## Kemtec™ Tallquist Hemoglobin Scale

Allows quick assessment of patient's blood hemoglobin levels.



Apply blood and allow to absorb into one of the test papers. Compare the color scale to determine the percent and weight of hemoglobin in blood under normal and anemic conditions.

- Includes color chart and 150 test papers
- Grade 9-14

### REQUIRES:

Lancets if blood is to be drawn

Cat. No.	Description	Price
S06452	Tallquist Hemoglobin Scale Kit	27.00/Ea

## LAB-AIDS™ Rh Blood-Typing Kit

Determine the presence of the Rh inherited blood factor.

- Students mix a blood sample with the Rh serum and then observe the film for agglutination
- Test requires no warming, and no light box is necessary for viewing
- Contains individualized, sterile components
- Blood-typing serum is bottled in spillproof, drop-controlled vials
- Requires no refrigeration and has no expiration date
- Class size: 32 students

### INCLUDES:

Vial of anti-Rh serum, 50 mixing spatulas, 50 presaturated alcohol pads, 50 sterile disposable blood lancets, 50 LAB-AIDS Slide Guides™, complete instruction manual



Cat. No.	Description	Price
S67357	Rh Blood Typing Kit for 32 Students	66.50/Ea

## Kemtec™ Blood Typing with Saliva Kit

Students use their own saliva, from which antigen secretors will be able to determine their ABO blood type.

- Provides real antisera for demonstrating true ABO blood typing agglutination reactions
- Antisera and blood cells are perishable, refrigeration prolongs shelf life
- Includes reply cards for blood cells and lectin
- Materials sufficient for up to 50 tests
- Class size: 24 students

Materials must ship 2nd day air on ice in summer months. Reply card items are only shipped within the continental United States. Cells should be used within 20 days.

### INCLUDES:

- Return cards for type A, B, O red blood cells and H Lectin
- Anti-A Serum
- Anti-B Serum
- MSDS
- Instructor's manual
- Student data sheet

### REQUIRES:

Centrifuge or prolonged settling



Cat. No.	Description	Price
S25080	Blood Typing with Saliva Kit	187.00/Ea



## LAB-AIDS™ ABO-Rh Combination Blood Typing Kit

Provides information on several different subjects related to blood typing.

This popular LAB-AIDS product combines all the features of Basic Blood Typing and Rh Blood Typing kits with a specially designed Slide Guide™. Provides information on the history of the blood factors, hereditary determination, individual typing techniques, comparisons of blood types in world populations, and blood typing birth problems.

- Determine ABO blood type and Rh factor
- Correlate agglutination to antigen production
- Observe and study Rh mechanisms and relationships to transfusion and genetics
- Classroom size: 32 students

**Note:** All sera have been tested for HBs Ag and HTLV-III (AIDS).

### INCLUDES:

- 32 Combi-Slide guide
- One of each drop-controlled bottle blood-typing serum, Type Anti-A, Type Anti-B and Type Anti-Rh
- 32 spatulas for Anti-A serum (blue)
- 32 spatulas for Anti-B serum (yellow)
- 32 spatulas for Anti-Rh serum (red)
- 32 pre-saturated alcohol pads
- 32 sterile disposable blood lancets
- 32 student worksheets and guides
- Instruction manual with MSDS

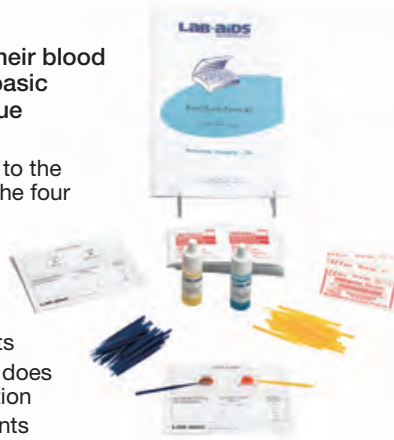


Cat. No.	Description	Price
S67359	ABO-Rh Comination Blood Typing Kit	126.00/Ea

## LAB-AIDS™ Basic Blood Typing Kit

Students determine their blood type while gaining a basic understanding of tissue incompatibility.

- Introduces students to the study of blood and the four basic blood groups
- Individual sterile components are color coded to simplify procedure and guarantee results
- Blood-typing serum does not require refrigeration
- Class size: 32 students



**INCLUDES:** Detailed instructions

Cat. No.	Description	Price
S67356	Basic Blood Typing Kit for 32 Students	96.00/Ea

## Blood Typing Anti-Sera, Anti-A, Anti-B and Anti Rh

For blood typing of real human blood.



- Available in 5mL vials that contain enough antisera for 75 students
- Freeze-dried samples; can be kept without refrigeration
- Shows negative results for Hepatitis B, HIV and EBV when tested with human-derived cell lines

Cat. No.	Description	Price
S07803	Type A, B and Rh	62.00/Ea
S07802	Anti-A and Anti-B	31.25/Ea
S07804	Anti-Rh	31.00/Ea

## LAB-AIDS™ Simulated Urinalysis Kit

Shows the importance of urinalysis as a reflection of body health.

Conduct a routine urinalysis with simulated urine. Test for specific gravity, pH, phosphates, chlorides and glucose levels.

- Use test results to indicate body health and measure kidney function
- Uses simulated urine and chemical reagents
- All bottles are drop-controlled



### INCLUDES:

- 15 LAB-AIDS Chemplates™ with spatula
- Three bottles each of simulated urine I, II, III, IV and V
- Three bottles of dilute acetic acid
- Three bottles of dilute silver nitrate
- Three bottles of Benedict's solution
- Five density tubes; one vial of universal indicator paper
- 15 pH color charts
- 30 student worksheets and guides
- Instruction manual with Material Safety Data Sheets

Cat. No.	Description	Price
S19552	Simulated Urinalysis Kit #4	150.00/Ea

## Urinalysis Using Simulated Urine

One of the oldest medical diagnostic tests performed.

### Students will:

- Use simulated urine to avoid the unpleasantness of using the real thing
- Perform actual tests used on real urine samples
- Examine simulated urine factors such as pH, color and clarity, as well as test for the presence or absence of proteins, glucose and calcium
- Examine samples microscopically to determine if any crystals are present in the sample

### ORDERING INFORMATION:

Materials for 15 groups.

### INCLUDES:

Teacher's guide, student study guide copymasters, kit with simulated urine samples (250mL each of patient X, patient Y, patient Z, control), Benedict's reagent (25mL), biuret solution (25mL), Sulkowitch's reagent (25mL), pH test strips, microscope slides, coverslips, graduated plastic cups (30mL), graduated pipets (1mL)



### REQUIRES:

Hot water bath, glass test tubes and compound microscopes (4X/10X/40X)

### COMPLIANCE:

This package conforms to 49CFR 173.4

Cat. No.	Description	Price
S98668A*	Urinalysis Using Stimulated Urine	62.00/Ea

## Oral Hygiene Model

Perfect tool for instructions about brushing techniques and proper oral hygiene.

- Designed to show how to properly care for the mouth
- Has a hinged jaw, movable tongue, and 9 in. demonstration toothbrush
- With key



Cat. No.	Description	Price
S01774	Oral Hygiene Model	47.50/Ea

## Inflatable Torso Model

Inflatable, vinyl model is an excellent economical way to introduce the basics of anatomy.

- Features a removable inflatable brain, right and left lungs, heart, and digestive system
- Each piece displays numbered parts that are referenced on the back of the model
- 30 Interesting facts about the body and nine about the brain are printed right on the model
- Model can be conveniently hung by the hanging tab or set up on a table using the handy ruler attachment



### ORDERING INFORMATION:

Grades K to 4.

Cat. No.	Description	Price
S97313	Inflatable Torso Model	16.25/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Auditory Ossicles

Life-size replicas of middle-ear bones.



Life-size, embedded replicas of middle-ear bones — the malleus (hammer), incus (anvil) and stapes (stirrup) — cast from human specimens.

Cat. No.	Description	Price
S17835	Auditory Ossicles	83.05/Ea

## Human Colon Model

**Colon Model.** View common pathologies such as adhesions, appendicitis, bacterial infection, cancer, Crohn's disease, diverticulitis, diverticulosis, polyps, spastic colon, and ulcerative colitis.

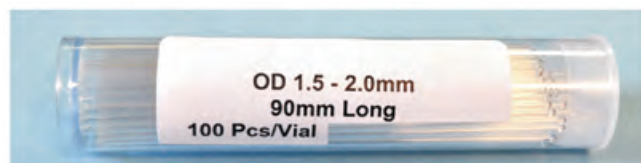
- Dimensions:  
6L x 2 1/2W x 7 3/4 in.H.



Cat. No.	Description	Price
S66166	Human Colon with Pathologies Model	87.25/Ea

## Capillary Tubes

Indispensable for calculating blood clotting time or determining melting points.



- Made of alkali-free, corrosion-resistant glass
- Extra-thin walls break easily and cleanly
- Good for routine melting point determinations
- Capacity: 30µL
- One sealed end
- 90mm melting-point capillary
- Sold 100 tubes per vial

Cat. No.	Description	Price
S37609E	Capillary Tubes	10.75/Ea

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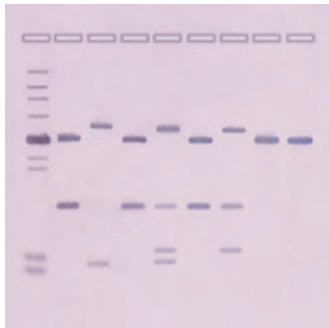


Genetics

## Edvotek™ DNA Fingerprinting: Southern Blot Analysis Using Non-Isotopic Detection of DNA

Introduces students to non-isotopic DNA detection and Southern Blot analysis used in DNA Fingerprinting for a hypothetical paternity determination.

- Includes three modules: Agarose gel electrophoresis, Southern Blot transfer, and non-isotopic detection of DNA
- For five lab groups
- Time: Electrophoresis 45 min., blotting overnight and non-isotopic 3 to 4 hr.



**INCLUDES:**

Instructions, predigested DNA samples, buffers, NBT/BCIP tablets, streptavidin-Alkaline Phosphatase, nylon membranes, filter paper and UltraSpec-Agarose™ powder

Cat. No.	Description	Price
S11311ND	DNA Fingerprinting	453.00/Ea

## Edvotek™ Introduction to DNA Fingerprinting

Learn how DNA is identified and analyzed in a hypothetical crime scene scenario.

- Separate and analyze DNA by agarose gel electrophoresis
- Compare DNA found at a crime scene with DNA from suspects



**ORDERING INFORMATION:**

Components for 4 Gels with six lanes each.

**INCLUDES:**

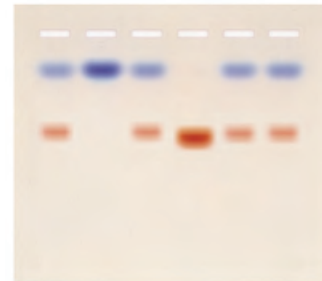
Dye Samples, Calibrated transfer pipet, Microtip transfer pipets, Agarose powder, Electrophoresis buffer, Practice gel loading solution, Graduated cylinder, content background, experiment procedures, safety information, assessment questions and answers

Cat. No.	Description	Price
S97676	Introduction to DNA Fingerprinting	68.00/Ea

## Edvotek™ Why Do People Look Different?

Learn about the basic principles of molecular genetics.

Different people display visible phenotypic inherited genetic variations. Certain traits, such as brown eyes, are dominant. In this experiment, students will explore basic principles of molecular genetics by using color dyes to represent simulated genetic traits.



- None of the experiment components have been prepared from human sources.

**ORDERING INFORMATION:**

Class size: 10 groups.

**INCLUDES:**

- Complete instructions, background information and study questions
- Mother's DNA sample
- Father's DNA sample
- Child No. 1 DNA sample
- Child No. 2 DNA sample
- Child No. 3 DNA sample
- Child No. 4 DNA sample
- UltraSpec-Agarose™
- 50X electrophoresis buffer
- Practice gel-loading solution
- Transfer pipets for gel loading

**REQUIRES:**

- Electrophoresis apparatus, M-12 or equivalent
- DC power supply
- Heat source
- 500mL beaker or flask
- Hot gloves
- Tape
- Foil
- Distilled water (used to make buffer solutions)
- Balance

Cat. No.	Description	Price
S94597	Why Do People Look Different? Kit	75.00/Ea

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## Edvotek™ Sickle Cell Gene Detection

Gain an understanding of the effect of mutations on health and disease.

- Genetically inherited diseases in humans can be caused by a single nucleotide mutation resulting in a change. Such a substitution can affect the structure and function of a critical protein, rendering it partially or completely nonfunctional. A classic example is hemoglobin in sickle cell anemia
- Agarose gel-based experiment designed for DNA staining and visualization with InstaStain™ Methylene Blue
- Demonstrates the use of a restriction enzyme that discriminates between the normal and sickle cell hemoglobin genes
- This experiment does not contain human DNA

### INCLUDES:

Complete instructions, background information and study questions; Eight Ready-to-Load™ DNA samples; Sickle cell gene sample; Sickle cell trait (carrier) sample; Normal gene sample; Mother's DNA sample; Child's DNA sample; Father's DNA sample; Practice gel loading solution; UltraSpec-Agarose™ powder; Concentrated electrophoresis buffer; InstaStain Methylene Blue; 1mL pipet; Microtipped transfer pipets; InstaStain Blue and FlashBlue stains

### REQUIRES:

Horizontal gel electrophoresis apparatus; D.C. power supply; Automatic micropipets with tips; Balance; Microwave, hotplate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats (for gel destaining); DNA visualization system (white light); Distilled or deionized water



Cat. No.	Description	Price
S94670	Sickle Cell Gene Detection (DNA-based)	127.00/Ea

## Eisco Genetic Traits Taste Testing Strips

Demonstrate how the ability to taste a certain compound is based on heredity.

Is it sweet, salty, bitter or tasteless?

- Depending on their own genetics, students will experience different tastes from the test strips
- PTC — seven out of 10 students will detect a definite taste; remainder will not
- Sodium benzoate — genetics determine if the paper tastes sweet, salty, bitter or tasteless. If a student can taste PTC, he may not be able to taste thiourea
- Control strips have no PTC, sodium benzoate or thiourea

### ORDERING INFORMATION:

Each test strip comes in a pack of 100.



Cat. No.	Description	Price
S85286A	Control Paper Taste Strip	3.45/Pk
S85287A	PTC Paper Taste Strip	3.45/Pk
S85288A	Sodium Benzoate Paper Taste Strip	3.45/Pk
S85289A	Thiourea Paper Taste Strip	3.45/Pk



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## LAB-AIDS™ Genetic Equilibrium and Natural Selection

Students study the principles of genetic equilibrium and natural selection as a process of evolution. LAB-AIDS™ Genetic Equilibrium and Natural Selection is a practical simulation to help students understand these concepts.

A simulation is used to develop insights about the genetic process involved when natural selection operates within a population in genetic equilibrium. Students use data collected in the Hardy-Wienburg Equilibrium to understand better the actual complexity of natural selection.

- Maximum 45 students/15 group
- One 50 minute class period
- Student worksheets incorporate literacy skills
- All materials reusable

### Concepts Illustrated:

- Understand the principles of genetic equilibrium and natural selection as a process of evolution
- Collect data from a simulated genetic process when natural selection is operating on a population in genetic equilibrium
- Use Hardy-Weinberg Equilibrium
- Understand that gene frequencies in equilibrium will remain in equilibrium in the absence of mutation, migration, or selection
- Understand that natural selection operates against the less favorable phenotypes in a population resulting in a larger proportion of favorable phenotypes in subsequent generations



### INCLUDES:

Teacher's guide; 30 student worksheets and guides; 15 shakers; 60 alleles, plastic, dark-colored; 40 alleles, plastic, light-colored

Cat. No.	Description	Price
S20971	Genetic Equilibrium and Natural Selection Kit	90.00/Ea

## LAB-AIDS™ Heredity and Environment

An exploration of the relationship between heredity and environment in seed traits. LAB-AIDS™ Heredity and Environment has student germinate hybrid tobacco seeds in darkness and in light before making observations.

Students set up controlled experiments that provide mathematical data to test their theoretical genetic hypothesis about heredity and the factors determined by the environment. They see how a recessive trait becomes evident. Students also germinate the hybrid tobacco seeds with one normal and one albino gene, stimulate shoot production, examine the relationship of the dominant gene (chlorophyll production) to the recessive gene and make conclusions concerning the genotype relevant to a visible phenotype. This is an excellent Lab-Aid to correlate heredity with environmental influences.

- Maximum 45 students/15 groups
- One+ 50 minute class period
- Student worksheets incorporate literacy skills

### Concepts Illustrated:

- Discover which is more important: Heredity or Environment
- Controlled experiment provides mathematical data to test hypotheses
- Discover how a recessive trait becomes evident
- Examine the relationship of a dominant gene to a recessive gene and draw conclusion concerning the genotype relevant to a visible phenotype



### INCLUDES:

Teacher's guide; 30 student worksheets and guides with data charts; 60 germinating papers; 15 germinating dishes, clear plastic, two-section; 15 germinating dishes, opaque plastic, two-section; 1 albino tobacco seeds, vial

Cat. No.	Description	Price
S20972	Heredity and Environment Kit	78.00/Ea



## Carolina™ Formula 4-24 Drosophila Medium

This medium allows teachers to set up a new culture in less than a minute.

- Mold resistant
- Needs no cooking or sterilizing
- Just add water for a complete medium
- Each liter of Formula 4-24™ will prepare 75 to 85
- *Drosophila* culture vials

### INCLUDES:

- Yeast
- Measuring cups
- Instructions

### ⚠ ALERTS:

Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000



Cat. No.	Description	Price
S07692ND	Formula 4-24 Drosophila Medium	133.00/Cs

## Advanced Placement

## Edvotek™ AP Lab 1: Artificial Selection

Students learn how artificial selection works.

Students will perform artificial selection on a population of Quick Plant™ and identify traits that vary in the population. Then they will perform artificial selection by cross-pollinating only selected plants and observe the trait differences between the two populations to learn how selection works.



### ORDERING INFORMATION:

- Class size: 10 laboratory groups
- Takes 30-minute lab periods over course of 5 to 7 weeks to complete the process

### INCLUDES:

Quick Plant seeds, nylon mason twine, potting mix, Miracle-Gro™ fertilizer, vermiculite, bees, plastic magnifier, wooden toothpicks and instructions

### REQUIRES:

Growing System: reused plastic soda or water bottles (500mL), lighting, light box system, digital cameras, lab notebook, water, tape and razor

Cat. No.	Description	Price
S06879	Artificial Selection	102.00/Ea

## Edvotek™ AP Lab 5: Photosynthesis

Key reagents are included to demonstrate photosynthesis.

Chromatographic separation of carotene, xanthophyll and chlorophylls are performed by thin layer chromatography. The reformulated solvent system minimizes toxicity.



### ORDERING INFORMATION:

- Class size: 10 lab groups
- Takes one hour, 45 minutes over two lab periods to complete

### INCLUDES:

Sodium bicarbonate (baking soda), liquid soap, plastic syringes, transfer pipets, plastic cups, metric rulers. Instructions, chloroplast extraction and dilution buffers, reducing agent, DCIP, standard pigments

### REQUIRES:

Leaves, timer, light source, hand-held hole punch, beakers

Cat. No.	Description	Price
S06883	Photosynthesis	87.00/Ea

## Edvotek™ AP Lab 6: Cellular Respiration

Students use small respirometers to determine O<sub>2</sub> consumption.

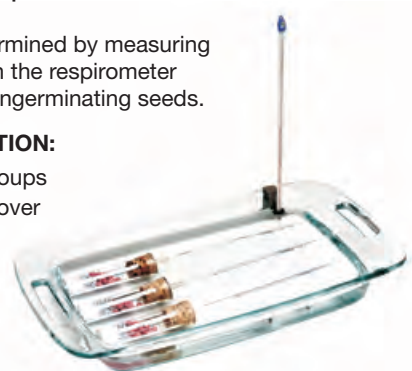
O<sub>2</sub> consumption is determined by measuring changes in H<sub>2</sub>O levels in the respirometer using germinating or nongerminating seeds.

### ORDERING INFORMATION:

- Class size: 10 lab groups
- Requires two hours over two lab periods

### INCLUDES:

30 pipets (1mL), glass beads, peas (0.25 lb.), potassium hydroxide solution (15%), cork stoppers, absorbent cotton, nonabsorbent cotton, plastic vials, Parafilm™ film and metal washers (to hold vials in water)



### REQUIRES:

10 thermometers, 10 trays (at least 14 in. [35.6cm] long), silicon glue, ice, cork borer, tape and timers

Cat. No.	Description	Price
S06884	Cellular Respiration	99.00/Ea

## Edvotek™ AP Lab 7: Cell Division — Mitosis and Meiosis

Students identify and differentiate the various stages in mitosis and meiosis.

- Onion root tips are stained to identify the various stages and duration of mitosis
- Meiosis and Crossing Over in *Sordaria* is also demonstrated in this experiment
- Students will also have an opportunity to analyze mechanisms involved with the loss of cell cycle control in cancer



### ORDERING INFORMATION:

- Class size: 10 lab groups
- Requires 60 minutes

### INCLUDES:

Pipe cleaners (1.2 in. [3cm] long, in two colors), carbol-fuchsin (Ziehl-Neelson) stain, lectin (phytohemagglutinin PHA-M from *Phaseolus vulgaris*), plastic bags, slides and cover slips

### REQUIRES:

Colored pencils (two colors), microscope, 10 onion bulbs, jars with lids, two jars (one per treatment) for six students, sand, ethanol, glacial acetic acid (17.4M), hydrochloric acid, razor blades, forceps, scissors, scientific cleaning (Kimwipes™) wipes, coplin jars and disposable gloves

Cat. No.	Description	Price
S06885	Cell Division — Mitosis and Meiosis	107.00/Ea

## Edvotek™ AP Lab 11: Transpiration

The principles of diffusion and osmosis are applied to the movement of water within plants.

Emphasis is given to water potential transport and the effect of the plant environment on transpiration.

### ORDERING INFORMATION:

- Class size: 10 lab groups
- Requires one to two hours

### INCLUDES:

Bush bean seeds (*Phaseolus vulgaris*), 2X Tolidine Blue O stain, parawax, plastic tubing, microtomes (nuts and bolts), Petri plates and 0.1mL pipets

### REQUIRES:

10mL pipets, petroleum jelly, light source with 100w bulb, fans(s), plant mister (a spray bottle), potting soil, large plastic bags, ring stands and clamps or buret holder, microscope slides, microscope(s), cover slips, slide mounting medium (i.e., 50% glycerol), 50% ethanol, new razor or scalpel blades, weighing scale or balance and small spatulas



Cat. No.	Description	Price
S06889	Transpiration	109.00/Ea

## Edvotek™ AP Lab 13: Enzyme Activity

Learn about enzyme catalysis and the nature of enzyme action.



This safe, easy experiment allows your students to learn about enzyme catalysis, the nature of enzyme action and protein structure-function relationships.

- Students perform an enzyme assay and determine the rate of the enzymatic reaction Experiment uses a safer system that eliminates the need for sulfuric acid and potassium permanganate

### ORDERING INFORMATION:

- Class size: 10 lab groups
- Requires 30 to 45 minutes

### INCLUDES:

Hydrogen peroxide solution, guaiacol solution, phosphate buffer pH 3, phosphate buffer pH 7, phosphate buffer pH 10 and phosphate buffer pH 14

### REQUIRES:

Turnip root, distilled or dionized water, pipet pumps or bulbs, Erlenmeyer flask (500mL), spectrophotometer, water baths, filter paper and funnel, test tube racks, test tubes (13 × 150mm), thermometer, cheesecloth, Parafilm™ film, hot plate, timer or clock with second hand, lab permanent markers, ice, razor, goggles and blender

Cat. No.	Description	Price
S06891	Enzyme Activity	129.00/Ea



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## Edvotek™ AP Lab Kit 1: Principles and Practice of Diffusion and Osmosis

Experiments help students develop an understanding of the molecular basis of diffusion and osmosis and its physiological importance.



- Analyze how solute size and concentration affect diffusion across semi-permeable membranes and how these processes affect water potential
- Calculate water potential of plant cells
- Class size: 40 students working in groups of 4

**Part A:** Dialysis experiments utilizing two dyes of different molecular weights visually demonstrate the size selectivity of membranes. Experiments also demonstrate changes in the equilibrium of the diffusible dye as it is removed from system.

**Part B:** Experiment approximates an osmotic system by demonstrating net flow of water through a dialysis membrane.

**Part C:** Involves the calculation of potato cell water potential from experimental data.

### ORDERING INFORMATION:

Class size: 40 students working in groups of 4.

### INCLUDES:

- Low Molecular Weight Indicator Dye
- High Molecular Weight Violet Dye
- 1M Sucrose - 1M NaCl solution
- Powdered sucrose
- Dialysis tubing
- Comprehensive instructions, background material, and study questions

### REQUIRES:

- 300 to 400mL Beakers† (20 for Part A, 50 for Part B, and 16 for Part C)
- 1, 5, and 10mL Pipets
- Graph paper
- Scales
- Distilled or deionized water
- 10 Thermometers
- Four potatoes
- Cork borers or small kitchen knives

Cat. No.	Description	Price
S11281	AP Lab Kit 1: Principles and Practice of Diffusion and Osmosis	133.00/Ea

†Beakers can be substituted with clear, disposable plastic cups.

## Edvotek™ AP Lab Kit 2: Principles of Enzyme Catalysis

Understand enzyme catalysis and protein structure-function relationships.



Methodology uses a colorimetric assay to measure the concentration of hydrogen peroxide (and therefore catalase activity) based on the oxidation of iodide by peroxide. This method differs from the AP Biology lab manual; it uses a safer system that eliminates the need for sulfuric acid.

- Perform an enzyme assay
- Determine the rate of a biochemical reaction

### ORDERING INFORMATION:

Class size: 10 laboratory groups (40 students).

### INCLUDES:

- Catalase solution
- 1.2% Hydrogen peroxide (stabilized)
- Phosphate buffer, pH 7.2 (20x concentrate)
- Assay reagent (potassium iodide concentrate)
- Acidification solution, 0.1M HCl
- Color enhancer (concentrate)
- Color developer (concentrate)
- Plastic tube, 15mL
- Comprehensive instructions, background material, and study questions

Cat. No.	Description	Price
S11282	AP Lab Kit 2: Principles of Enzyme Catalysis	153.00/Ea



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## Edvotek™ AP Lab Kit 12: Dissolved Oxygen and Aquatic Primary Productivity

Experiment demonstrates the methodology used for measuring dissolved oxygen and determining the primary productivity of a natural body of water.

Measure dissolved oxygen concentration in water samples using the Winkler technique.



- Learn about the factors that affect the solubility of dissolved gases in aquatic environments
- Learn about the effects of light and nutrients on photosynthesis
- Learn about the relationship between dissolved oxygen, photosynthesis and respiration

### ORDERING INFORMATION:

Class size: 10 laboratory groups (40 students).

### INCLUDES:

- Sodium iodide
- Sodium hydroxide
- Manganese sulfate
- Starch solution
- Sodium thiosulfate
- Nitrogen enrichment solution (concentrate)
- Phosphorous enrichment reagents
- Comprehensive instructions, background material, and study questions

### REQUIRES:

- Pond/lake water
- Goggles
- Grow lights
- Pipets
- Sulfuric acid (concentrated)
- Plastic window screens
- Burets
- 50 Sealable containers or BOD bottles
- Flasks
- Beakers

- Gloves
- Filter paper
- Linear graph paper
- Aluminum foil

Cat. No.	Description	Price
S11292	AP Lab Kit 12: Dissolved Oxygen and Aquatic Primary Productivity	145.00/Ea

## Edvotek™ Ready-to-Load DNA Sequencing Kit

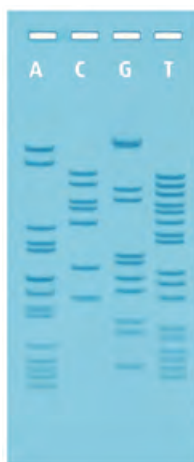
Used to introduce genome concepts and help students gain a better understanding of the science behind DNA sequencing. Edvotek™ Ready-to-Load DNA Sequencing Kit is for 8 lab groups.

Students load the four separate reactions into agarose gels, run the gels, stain them, and actually read the DNA sequence.

- Contains four Ready-to-Load sequenced DNAs (nucleotides A, C, G and T) in an easy to use, safe format
- Complete in 60 minutes
- Level: Beginner

### REQUIRES:

Electrophoresis apparatus, power supply, automatic micropipette and tips, balance, microwave or hot plate, visualization system.



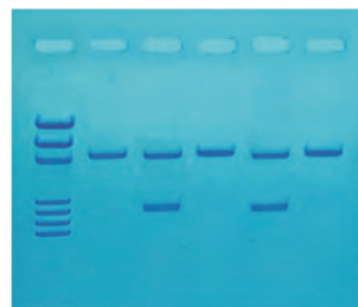
## Edvotek™ Detection of the Influenza Virus Experiment Kit

In this experiment, students perform two common tests (RIDT, RT-PCR) used to diagnose the flu in clinical setting. Edvotek™ Detection of the Influenza Virus Experiment Kit is for 8 lab groups.

Complete in 90 minutes

### REQUIRES:

Horizontal gel electrophoresis apparatus, D.C. power supply, automatic micro pipettes and tips, balance, microwave or hot plate, pipette pump, 250 ml flasks or beakers, hot gloves, safety goggles and gloves, small plastic trays or large weigh boats, DNA visualization system (white light), distilled or deionized water



Cat. No.	Description	Price
S29011	Ready-to-Load DNA Sequencing Kit	103.00/Ea

Cat. No.	Description	Price
S29012	Detection of the Influenza Virus Experiment Kit	134.00/Ea

## Edvotek™ What's In My Lunch? Quantitative Milk Allergy ELISA Experiment Kit

Inquiry-based experiment, students learn about the concepts and methodology behind the enzyme-linked immunosorbent assay (ELISA). Edvotek™ What's In My Lunch? Quantitative Milk Allergy ELISA Experiment Kit helps in detecting the presence of whey protein in various food products.



- For 10 Lab Groups
- Complete in 2 hours
- Level: Advanced

### REQUIRES:

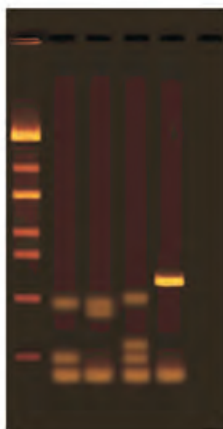
Various food samples to be tested, distilled or deionized water, beakers or flasks, paper towels, 37°C incubator, disposable lab gloves, safety goggles, automatic micropipettes (5-50µl, 100-1000µl) and tips, digital camera or cell phone with camera (optional), computers with internet, image analysis program, and graphing program (optional)

Cat. No.	Description	Price
S29014	What's In My Lunch? Quantitative Milk Allergy ELISA Experiment Kit	123.00/Ea

## Edvotek™ Exploring Plant Diversity with DNA Barcoding Experiment Kit

Students explore the genetic diversity of ten selected plants in this experiment. Edvotek™ Exploring Plant Diversity with DNA Barcoding Experiment Kit used to generate unique identification profiles for each plant.

- Students isolate plant DNA and use PCR to amplify two polymorphic regions of the chloroplast genome
- Digestion of PCR products and analysis by agarose gel electrophoresis used for unique identification profiles for each plant
- For 10 Lab Groups
- DNA Isolation (2 hrs) Set-Up (30 min) DNA Digest (60 min)
- Requires wet ice shipment for next day delivery



### REQUIRES:

Thermal cycler, centrifuge, isopropanol, distilled water, electrophoresis apparatus, power supply, adjustable micropipets and tips, microwave or hot plate, waterbath, UV transilluminator.

Cat. No.	Description	Price
S29017	Exploring Plant Diversity with DNA Barcoding Experiment Kit	233.00/Ea

## Edvotek™ Effects of Alcohol on C. elegans Experiment Kit

The objective of this experiment is to observe and record the effects of alcohol on normal and alcohol mutant strains of *Caenorhabditis elegans*. Edvotek™ Effects of Alcohol on *C. elegans* Experiment Kit contains LIVE materials and must be requested 1 week prior to lab.

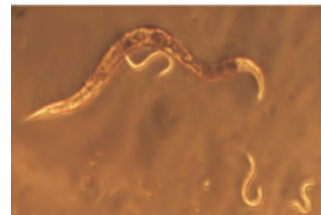
- For 10 Lab Groups
- Growing Bacteria: overnight; Plating Worms: 15 min.; Worm Growth: 3-4 Days; Alcohol Experiment: 45-60 min.
- Level: Intermediate

### STORAGE:

4°C. 3 months. (Some Components)

### REQUIRES:

Covered box, microscopes, timers, 70% ethanol, waterbath, and incubator (optional).

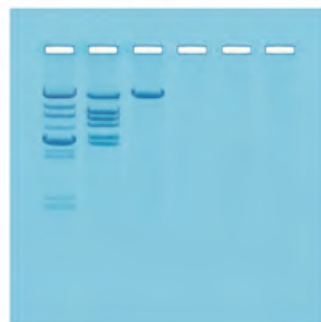


Cat. No.	Description	Price
S29024	Edvotek Effects of Alcohol on <i>C. elegans</i> Experiment Kit	130.00/Ea

## Edvotek™ AP Lab 9: Biotechnology – Restriction Enzyme Analysis of DNA

For analysis of Eco RI cleavage patterns of lambda DNA

- This experiment introduces the use of restriction enzymes as a tool to digest DNA at specific nucleotide sequences
- Bacteriophage lambda DNA has a linear structure and six Eco RI recognition sites
- Separation by agarose gel electrophoresis of an Eco RI digest of lambda DNA will yield six bands (five distinct bands, two are very close in size) corresponding to the DNA fragments



### ORDERING INFORMATION:

- For six gels
- Takes one hour to complete

### INCLUDES:

DNA samples (packaged as either pre-aliquoted QuickStrip™ connected tubes or as individual 1.5mL [or 0.5mL] microcentrifuge tubes); UltraSpec-Agarose™ powder; concentrated electrophoresis buffer; FlashBlue™ DNA stain; InstaStain™ Blue cards; practice gel-loading solution; 1mL pipet and microtipped transfer pipets

### REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; automatic micropipets with tips; balance; microwave; hotplate or burner; pipet pump; 250mL flasks or beakers; hot gloves; safety goggles; disposable laboratory gloves; small plastic trays or large weigh boats (for gel destaining); DNA visualization system (white light) and distilled or deionized water

Cat. No.	Description	Price
S06887	Biotechnology – Restriction Enzyme Analysis of DNA	111.00/Ea

## Edvotek™ AP Labs Special Package: 13 AP Labs



### Contains:

- Lab 1: Artificial Selection
- Lab 2: Mathematical Modeling: Hardy-Weinberg
- Lab 3: Comparing DNA Sequences to Understand Evolutionary Relationships with BLAST
- Lab 4: Diffusion and Osmosis
- Lab 5: Photosynthesis
- Lab 6: Cellular Respiration
- Lab 7: Cell Division: Mitosis and Meiosis
- Lab 8: Biotechnology: Bacterial Transformation
- Lab 9: Biotechnology: Restriction Enzyme Analysis of DNA
- Lab 11: Transpiration
- Lab 12: Fruit Fly Behavior
- Lab 13: Enzyme Activity

## AP Biology Investigation Kit No. 5: Photosynthesis

Students learn necessary components and conditions for photosynthesis using leaf disks to measure oxygen accumulation and its affect on the process.

Students will design and conduct an experiment using a selected variable to examine the rate of photosynthesis.

- Meets AP Science Practices 1, 2, 3, 6 and 7, and Big Idea 2
- Includes enough materials for eight lab groups
- For grades 10-12



### INCLUDES:

- Dilute soap solution - 30mL
- Hole punch
- Plastic cups -16 count
- Sodium bicarbonate - 50g
- Syringes, 10mL - 16 count

- Teacher's manual and student study guide

### REQUIRES:

- Living plant leaves
- Timers or stop watches
- Light source
- Distille or deionized water

Cat. No.	Description	Price
S06892	All 13 LABS! 2012 AP Labs Special Package	1201.00/Ea

Cat. No.	Description	Price
S07045	Photosynthesis Study Kit	53.00/Ea

## AP Biology Investigation Kit No. 13: Enzyme Activity

Students will use turnip extracts to learn the nature and specificity of enzyme-catalyzed reactions.

The reaction between hydrogen peroxide and peroxidase enzyme will be examined after testing with one or more influential factors.

- Kits contains materials for eight groups
- Meets AP Science Practices 4, 5, 6 and 7, and Big Idea 4
- For Grades 10-12

### INCLUDES:

- Guaiacol concentrate - 1.5mL
- pH 3 Buffer - 100mL
- pH 5 Buffer - 100mL
- pH 6 Buffer - 100mL
- pH 7 Buffer - 100mL
- pH 8 Buffer - 100mL
- pH 10 Buffer - 100mL
- Hydrogen peroxide - 1.0%
- Teacher's manual and student study guide

### REQUIRES:

- Distilled or deionized water
- Parafilm or similar
- Test tube - 16 x 150mm
- 16 graduated pipettes - 1mL
- 16 graduated pipettes - 10mL
- Eight graduated pipettes - 5mL
- Eight pipettes or pipette bulbs
- Eight test tube racks
- Eight timers or stopwatches
- **Recommended:** Spectrophotometer



Cat. No.	Description	Price
S07044	Enzyme Activity Kit	42.00/Ea



## AP Biology Investigation Kit No. 4: Diffusion and Osmosis

To observe osmosis and diffusion in living tissue.

Students study the following concepts in osmosis and diffusion process:

- Movement of water and nutrients across cell membrane
- Investigate relationship between surface area and volume as it relates to cells and diffusion
- Examine concept of molarity and its relation to osmotic potential and movement of water
- Cell size, shape and water elimination affect the overall rate of nutrient intake
- Students will use plant tissue to determine molarities of unknown solutions based on direction and degree of water movement
- For eight groups
- Meets AP Science Practices 2, 4, and 5, and Big Idea 2

### INCLUDES:

- 45g Agar
- 15mL Bromothymol blue concentrate
- 2 x 25mL 2.0M Hydrochloric acid
- 8 Agar block casting trays
- 40 Plastic cups, 7 oz.
- 40 pc. Dialysis tubing
- Microscope slides, pkg/72
- 8 Plastic cups
- 5 oz. Coverslips
- 8 Plastic knives Cork borer
- 8 Plastic stirrers
- 8 Metric rulers

- Sucrose QuickSolution (to make 1L of 1.0M solution)
- Sodium chloride QuickSolution (to make 1L of 1.0M solution)
- Glucose QuickSolution (to make 1L of 1.0M solution)
- Ovalbumin QuickSolution (to make 1L of 5.0% solution)
- Food coloring set (red, blue, yellow, green)
- Sucrose QuickSolution set to make:
  - 1L of 0.2M solution (Solution No. 3)
  - 1L of 0.4M solution (Solution No. 2)
  - 1L of 0.6M solution (Solution No. 5)



### REQUIRES:

- Paper towels
- Distilled or deionized water
- Electronic balance
- Large onion
- Fine-point forceps/tweezers
- Microscopes
- Potatoes, sweet potatoes, or yams

Cat. No.	Description	Price
S07056*	AP Biology Investigation Kit No. 4: Diffusion and Osmosis	151.00/Ea

## AP Biology Investigation Kit No. 6: Cellular Respiration

Students measure and record the rate of oxygen consumption (cellular respiration).

- Activity involves use of a respiration chamber
- Germinating seeds and non-germinating material are used as control samples
- Include teachers manual and student study guide copymasters
- Meets AP Science Practices 1, 2, 3, 6 and 7 and Big Idea 2
- For eight lab groups
- This package conforms to 49 CFR 173.4 for domestic highway or rail transport only.

### INCLUDES:

- One pack pea seeds
- One pack plastic beads
- 24 Respiration chambers
- 24 Graduated pipets (1mL)
- One bottle 15% KOH (30mL)
- 48 Washers
- 24 Rubber stoppers
- One pack non-absorbent cotton
- One pack absorbent cotton
- Eight trays
- One tube petroleum jelly sealant

### REQUIRES:

- Eight graduated cylinders (100mL)
- Eight thermometers
- Eight stopwatches or digital timers
- Ice
- Wax marking pencils or markers
- Paper towels
- Masking tape



Cat. No.	Description	Price
S07057**	AP Biology Investigation Kit No. 6: Cellular Respiration	249.00/Ea

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm -[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## AP Biology Investigation Kit No. 8: Bacterial Transformation

Students genetically engineer bacteria through transformation with a plasmid that confers antibiotic resistance.



- Efficiency of the procedure is determined by examining the number of resistant bacteria
- Includes teachers manual and student study guide copymasters
- Meets AP Science Practices 1, 3, 5, 6, and 7, and Big Idea 3
- For eight lab groups

Recommended: Incubator (37°C). Requires: Large beaker, microwave (not necessary if melting agar in a waterbath), microfuge tube racks, hot plate or waterbath, markers, and container of ice.

### INCLUDES:

- Sterile Calcium Chloride 0.05M (30mL)
- 16 Sterile volumetric pipets
- Eight Pipet bulbs
- Eight micropipets w/plunger (10 $\mu$ L)
- 16 Microcentrifuge Tubes (1.5mL)
- Eight sterile inoculating loops
- 40 Petri dishes
- Four Luria agar (200mL)
- One Luria broth tube (9mL)

**Perishable materials are supplied via coupon redeemable by fax, phone or e-mail, and include:**

- One E. Coli culture (freeze dried)
- Two bottles 0.02g Ampicillin
- 1000ng pUC 19 Plasmid
- One Tryptic Soy Broth tube (9mL)
- One Tryptic Soy Agar slant (6mL)
- One sterile, disposable pipet

Cat. No.	Description	Price
S07058	AP Biology Investigation Kit No. 8: Bacterial Transformation	206.00/Ea

## AP Biology Investigation Kit No. 9: Restriction Enzyme Analysis

In this lab students will understand the action and specificity of restriction enzymes, while learning the components involved in the process of DNA electrophoresis and the role of each component as it applies to the entire process of electrophoresis.

Students will perform the electrophoresis process on DNA samples treated with different restriction enzymes and construct a standard curve using a known DNA sample while determining the approximate size of the DNA fragments in unknown samples. Meets AP Science Practices 3 and 6, and Big Idea 3. Materials provided for eight lab groups.

### INCLUDES:

- Prepared agarose, 0.8%, 200mL TBE buffer, 5X, 500mL
- DNA Stain, 20X, 60mL DNA Samples, 100 $\mu$ L each:
- DNA Marker (Lambda DNA HindIII digest)
- Sample #1 (Lambda DNA)
- Sample #2 (Lambda DNA BstEII digest)
- Sample #3 (Lambda DNA EcoRI digest)
- Sample #4 (Lambda DNA BstEII digest)

### REQUIRES:

- Agarose electrophoresis chamber
- Microwave or hot water bath
- Electrophoresis power supply
- Distilled or deionized water
- Micropipettes w/micropipette tips, 10 $\mu$ L
- Gel staining trays or similar (large enough container to accommodate flat agarose gels)



Cat. No.	Description	Price
S07059	AP Lab 9: Restriction Enzyme Analysis	115.00/Ea



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## AP Biology Investigation Kit No. 11: Transpiration

Students study transpiration/transpiration pull and the role it plays in water/nutrient movement in plants.

Students will design and conduct an experiment to show how altering an environmental condition may affect the rate of transpiration.



- Study the role of stomata
- Examine transpiration in a bean seedling
- Show effect of altering environment
- Meets AP Science Practices 1, 2, 4, 6, and 7, and Big Idea 4
- Materials for 32 students in eight lab groups

### INCLUDES:

- Eight each: clear tubing 12 in.; tubing clamps; pipettes - 1mL; syringes- 10mL; planting trays- six cells;
- One each: bag potting soil; pack of bean seeds; tube of petroleum jelly; bottle nail polish; Pack of microscope slides
- Teacher's manual and student's guide

Cat. No.	Description	Price
S07061*	Transpiration Study Kit	95.00/Ea

## AP Biology Investigation Kit No. 7: Cell Division: Mitosis and Meiosis

Students will study the cellular steps involved in DNA replication and cell division in both mitosis and meiosis.

- Stages of mitosis in the preparation of plant root tips
- Crossing over in meiosis via Sordaria cultures
- Meets AP Science Practices 1, 5, 6, and 7, and Big Idea 3
- Teacher's manual and student's guide included
- Materials for 32 students in 8 groups



### INCLUDES:

- Hydrochloric acid, 6.0M, 30mL
- Tolidine blue, 1%, 30mL
- Sand, 500g
- 20 Petri dishes, sterile
- Eight disposable inoculating loops, sterile
- Sordaria agar, 200mL
- Sordaria mating agar, 200mL
- Eight forceps
- 1/Pk. slides
- 1/Pk. coverslips
- 16 plastic pipettes
- Eight 7 oz. cups
- 10 disposable scalpels
- Coupon for perishable materials

Cat. No.	Description	Price
S07062*	Mitosis and Meiosis Kit	190.00/Ea

## AP Biology Investigation Kit No. 1: Artificial Selection

To study the process of artificial selection by using fast growing plants.

- Students will identify phenotypic differences to observe
- Selective cross pollination is used to examine prevalence of particular phenotype in successive generations
- Meets AP Science Practices 2, 5, 7 and Big Idea 1
- Materials provided for 32 students in eight lab groups



### INCLUDES:

- One bag potting soil
- One bag vermiculite
- One package 7 oz. cups
- One package 5 oz. cups
- Eight magnifiers
- One nutrient quick solution to make 1L
- One package Innovating Science Fast Growing Plant Seeds
- One package cotton swabs
- One package hydroponic wicks

Cat. No.	Description	Price
S07063	AP Biology Investigation Kit No. 1: Artificial Selection	72.00/Ea

## Blood Typing Anti-Sera, Anti-A, Anti-B and Anti Rh

For blood typing of real human blood.



- Available in 5mL vials that contain enough antisera for 75 students
- Freeze-dried samples; can be kept without refrigeration
- Shows negative results for Hepatitis B, HIV and EBV when tested with human-derived cell lines

Cat. No.	Description	Price
S07803	Type A, B and Rh	62.00/Ea
S07802	Anti-A and Anti-B	31.25/Ea
S07804	Anti-Rh	31.00/Ea

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Biotechnology

## Gene Technology

## Edvotek™ Exploring Biotechnology with Green Fluorescent Protein (GFP)

Four experimental modules are combined into one experiment to provide a comprehensive biotechnology exploration focusing on the green fluorescent protein (GFP).

- Bacterial cells are transformed to express the green fluorescent protein (GFP)
- Transformed cells are then grown and the GFP is purified by column chromatography
- The purity of the protein fractions are analyzed by SDS polyacrylamide electrophoresis

### Experiment times:

- Module I: Transformation, 45 minutes
- Module II: Isolation of GFP, 45 minutes
- Module III: Purification of GFP by Chromatography, 45 minutes
- Module IV: Analysis by GFP by Denaturing SDS Gel Electrophoresis, one hour

### ORDERING INFORMATION:

Contains materials for six experiments with four modules each.

### INCLUDES:

Instructions; BactoBeads; Plasmid DNA for GFP; IPTG; Ampicillin antibiotic; Calcium chloride; ReadyPour™ luria broth agar; Luria broth media for recovery; Petri plates; Pipets; Calibrated transfer pipets; Inoculating loops; Microtest tubes with attached caps; Toothpicks; Dry matrix for columns; Chromatography columns; Green fluorescent protein extracts; Elution buffer; Protein molecular weight standards; Protein denaturation solution; Glycerol solution; Tris-Glycine-SDS buffer; Stains

### REQUIRES:

Incubation oven; Two water baths; Microwave or hotplate; Automatic micropipet and tips; Pipet pumps or bulbs; Ice; Long-wave UV light; Ring stand and clamps; Lab glassware; Ice; Vertical gel electrophoresis apparatus; Power supply; Three polyacrylamide gels (12%); Plastic trays or large weigh boats for optional staining and destaining; Glacial acetic acid; Methanol



Cat. No.	Description	Price
S05657	Exploring Biotechnology with Green Fluorescent Protein (GFP)	220.00/Ea

## Edvotek™ In Search of the Sickle Cell Gene by Southern Blot

Use Southern blots to detect mutations while gaining insight about the effects of sickle cell anemia.

Mutation of a single base pair in a hemoglobin chain causes sickle cell anemia, which changes the shape of affected blood cells and can cause blockages, strokes and severe pain.

- No components have been prepared from human sources.

### Instructor's Guide provides:

- General information
- Pre-lab preparations
- Electrophoresis hints
- Answers to study questions

### REQUIRES:

- Horizontal gel electrophoresis apparatus
- Hotplate
- Micropipets
- Balance
- Water bath
- Incubation oven
- 250mL Flasks
- All necessary safety equipment
- Concentrated HCl
- NaOH
- Forceps Distilled or deionized water

### INCLUDES:

All biological material necessary for five blots and study materials



Cat. No.	Description	Price
S11315ND	Sickle Cell Kit	193.00/Ea

## Edvotek™ In Search of the Cancer Gene

Track cancer formation and genetic patterns.

Follow family pedigree to determine the relationships of p53 mutation and cancer within several generations.

- No components have been prepared from human sources.

### ORDERING INFORMATION:

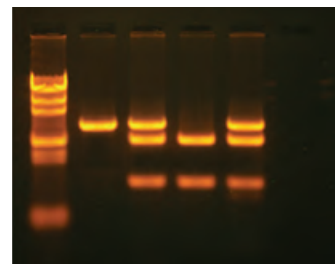
Class size: five groups, for six gels (five lanes each) with InstaStain™ Methylene Blue.

### REQUIRES:

- Horizontal gel electrophoresis apparatus
- Hotplate
- Micropipets Balance Water bath UV transilluminator
- 250mL flasks
- All necessary safety equipment
- Distilled or deionized water

### INCLUDES:

All necessary biological material as well as study materials. Instructor's guide provides general information, gel and reagent preparations, hints and visualizations, answers to study questions and SDS information



Cat. No.	Description	Price
S66828	In Search of the Cancer Gene	114.00/Ea

## Edvotek™ The Mystery of the Crooked Cell

Demonstrates detection of the mutation that causes sickle cell anemia.

Students use electrophoresis to separate dyes that represent patient samples and controls. Developed in partnership with Boston University School of Medicine.

### ORDERING INFORMATION:

Contains materials for 10 gels.

### REQUIRES:

- Electrophoresis tank
- Power supply

### INCLUDES:

- Ready-to-Load™ dye samples
- Agarose powder
- Practice gel-loading solution
- Electrophoresis buffer
- Microtipped transfer pipets
- Instructions

Cat. No.	Description	Price
S96377	The Mystery of the Crooked Cells Kit	72.75/Ea



## Edvotek™ In Search of My Father

Solve the mystery of two boys separated from their parents a decade ago.

- Students identify the biological mother by mitochondrial DNA
- Identify the biological father using chromosomal DNA
- Complete in 45 minutes

### INCLUDES:

- Instructions
- Ready-to-Load™ dye samples
- Agarose powder
- Practice gel-loading solution
- Buffer
- Microtipped transfer pipets

### REQUIRES:

- Electrophoresis apparatus
- Power supply
- Microwave or hotplate

### ORDERING INFORMATION:

For 10 lab groups.

Cat. No.	Description	Price
S05713	In Search of My Father	70.50/Ea



## Edvotek™ AIDS Kit I: Simulation of HIV-1 Detection

In this experiment, students will perform an ELISA test by coating microtiter plate wells with simulated HIV antigen and then test simulated donor serum for anti-HIV antibodies.

- A model for HIV-1 detection without the use of blood

Simulates the screening for antibodies against human immunodeficiency virus (HIV-1). Enzyme-linked immunoabsorbent assay (ELISA) is currently used for initial clinical screening of the blood supply for HIV-1. Students add simulated HIV antigen to wells in the microtiter plate and follow it with washing and introduction of simulated antibodies of HIV-1 positive or negative samples. A second antibody is added which binds to the first antibody of HIV-1 positive samples and results in a color change.

### INCLUDES:

Complete instructions, background information, and study questions; biologicals and reagents; three microtiter plates; 50 transfer pipettes; 60 microtest tubes with attached caps; twenty-five 1mL pipettes; two 50mL plastic tubes.

### REQUIRES:

- Distilled or deionized water
- Beakers z 37°C incubation oven
- Automatic micro- pipettes and tips (optional)

Cat. No.	Description	Price
S11271	HIV-1 Detection	156.00/Ea



## Edvotek™ Blue/White Cloning of DNA Fragment and Assay of $\beta$ -galactosidase

To clone a DNA fragment in pUC-linker and select colonies that have DNA inserts based on color selection.

DNA is subcloned in the pUC polylinker region, thereby interrupting  $\beta$ -galactosidase production. The inability of cells to hydrolyze X-Gal, results in production of white colonies amongst a background of blue colonies.

- When DNA is subcloned in the pUC polylinker region,  $\beta$ -galactosidase production is interrupted, resulting in the inability of cells to hydrolyze X-Gal
- Results in production of white colonies amongst background of blue colonies
- Provides DNA fragment together with linear plasmid and T4 DNA Ligase
- Following ligation, competent *E. coli* cells are transformed and the number of recombinant antibiotic-resistant white and blue colonies are counted

- $\beta$ -galactosidase activity is assayed from blue and white bacterial cells
- For 5 lab groups
- Time: Ligation: 60 min., transformation: 45 min., plating: 5 min., incubation overnight and transformation: 15 min.

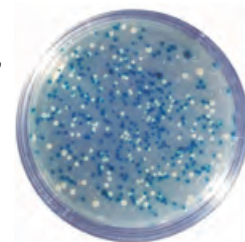
### INCLUDES:

Instructions, Linearized pUC plasmid and DNA fragment, T4 Ligase, Bacterial LyphoCells™ for transformation, reconstitution buffer, X-Gal in solvent, IPTG, calcium chloride, antibiotic, ReadyPour™ Luria Broth Agar, Luria broth media for recovery, growth media, assay components and plastic supplies

### REQUIRES:

Incubation oven, two waterbaths, shaking incubator or shaking waterbath, microwave or hot plate, automatic micropipet and tips, spectrophotometer, balance, centrifuge, microcentrifuge, glassware and cuvettes, distilled water and ice

Cat. No.	Description	Price
S11300ND	Blue/White Cloning of DNA Fragment	290.00/Ea



## Edvotek™ Mammalian Cell Culture Kits

Offer a microscopic comparison of the morphology of normal and transformed mammalian cells.

Provide an understanding and visual comparison of the morphology of various normal and transformed mammalian cells by microscopic examination. Procedures similar to these are used to examine biopsy specimens.

### Analysis and Comparison of Various Mammalian Cell Types

- Fixes and stains four different cell types for direct microscopic comparison to show the differences between normal and transformed cell cultures

### Morphology of Cancer Cells

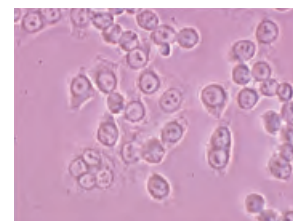
- Compares the contact inhibition of normal cells to the increased growth of cancer cell colonies

#### INCLUDES:

- All necessary materials plus complete instructions, background information, and study questions.

#### REQUIRES:

- Microscope with 400–600X magnification
- Forceps
- Gloves
- Distilled water
- Differentiation of Human Cells by Retinoic Acid (S67198) also requires immersion oil and immersion objectives for the microscope



#### ORDERING INFORMATION:

- Most kits will supply six groups of students.

Cat. No.	Description	Price
S67199	Morphology of Cancer Cells	140.00/Ea
S67196	Analysis of Mammalian Cell Types	159.00/Ea

## United Scientific™ Protein Synthesis Manipulative Kit

Teach protein synthesis with hands-on manipulatives.

Large, colorful models of DNA, mRNA, ribosome, tRNA and amino acid attach to the blackboard for a visual simulation of protein synthesis.

- Smaller size models provide students with hands-on learning. Activities include identifying the amino acid sequence resulting from a unique DNA sequence
- Includes an instructional CD-ROM with suggested activities

#### ORDERING INFORMATION:

Class size: 30 students working in groups of five.



Cat. No.	Description	Price
S65998	Protein Synth Manipulative Kit	394.00/Ea

## Edvotek™ Cholesterol Diagnostics

Study cholesterol-based diseases.

- In this experiment, a simulated genetic test for familial hypercholesterolemia (FH) is demonstrated in which patients are tested for a DNA polymorphism linked to the FH gene
- Develop an understanding of the genetics and DNA-based diagnostics of cholesterol-based diseases
- This experiment does not contain human DNA

#### ORDERING INFORMATION:

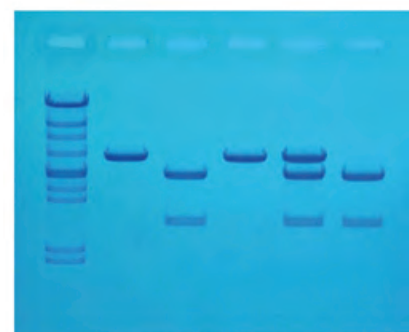
Contains materials for eight gels with InstaStain™ Methylene Blue.

#### INCLUDES:

DNA standard markers; Normal DNA sample; FH control; Patient No. 1 DNA sample; Patient No. 2 DNA sample; Patient No. 3 DNA sample; Practice gel-loading solution; UltraSpec-Agarose™ powder; Concentrated electrophoresis buffer; InstaStain Blue; FlashBlue stain; Methylene Blue Plus™ stain; 1mL pipet; Microtipped transfer pipets; Complete instructions, background information and study questions

#### REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Balance; Microwave, hotplate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats for gel destaining; DNA visualization system (white light); Distilled or deionized water



Cat. No.	Description	Price
S94608	Cholesterol Diagnostics	129.00/Ea



## Edvotek™ Pre-Fixed Microscope Slide: Chromosome Spread

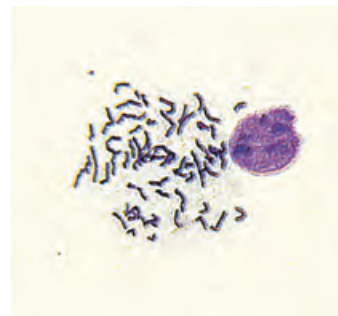
Students will develop an understanding of karyotyping and the association of chromosomal abnormalities with diseases. Edvotek™ Chromosome Spread (Pre-Fixed Slides) helps students in staining and observe condensed chromosomes.

During mitosis, each of our chromosomes are duplicated. The chromosomes are then separated during mitosis, moving to opposite ends of the cell before cell division.

- In this experiment cells have been arrested during metaphase and fixed to slides
- Allows students to stain and observe the condensed chromosomes
- Students will develop an understanding of karyotyping and the association of chromosomal abnormalities with diseases
- For 6 Lab Groups
- Complete in 35 minutes
- Level: Beginner

### REQUIRES:

A microscope with 400x magnification



Cat. No.	Description	Price
S29006	Chromosome Spread Slide	92.00/Ea

## Edvotek™ What Is an Epidemic and How Does an Infection Spread?

Students develop skills for accurately transferring solutions using pipets.

This experiment contains solutions to demonstrate how an infection is spread in a population through contact with simulated body fluids.

- Learn how infections are spread from one person to many others
- Transfer solutions from one tube to another
- Test a solution for the presence of an acid or a base

- Test tubes and caps
- Large transfer pipets
- Complete instructions, background information and study questions



### ORDERING INFORMATION:

Class size: 10 groups.

### INCLUDES:

- Sodium hydroxide pellets
- 1N HCl
- Color indicator

### REQUIRES:

- Gloves
- Safety goggles
- Lab coats or protective clothing

### ⚠ ALERTS:

**This kit contains chemical(s) that may be harmful if used improperly. This kit is to be used by students only with teacher supervision.**

Cat. No.	Description	Price
S94602	What is an Epidemic and How Does An Infection Spread? Kit	75.00/Ea

## Edvotek™ How Does a Doctor Test for AIDS?

Students perform simulated ELISA testing for AIDS.

- Immunology-based diagnostic tests are used to detect various diseases
- Enzyme Linked Immunosorbent Assay (ELISA) tests for antibodies in the blood which indicate infection
- Students perform a simulated ELISA test to identify "infected" samples and compare them to control samples
- Complete in 45 minutes
- No human blood or components are used in this experiment.

### INCLUDES:

- Simulated HIV antigens
- Positive control
- Negative control
- Donor 1 serum
- Donor 2 serum
- Secondary antibody (2<sup>o</sup>Ab)
- Substrate

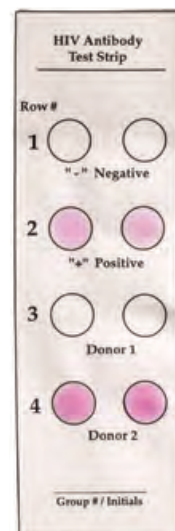
### REQUIRES:

- Distilled water
- Beakers, 50 or 100mL
- Pencils
- HIV antibody detection strips
- Small transfer pipets
- Large transfer pipets
- Microtest tubes
- Complete instructions, background information and study questions
- Gloves
- Timer or clock

### ORDERING INFORMATION:

For 10 groups.

Cat. No.	Description	Price
S94603	How Does a Doctor Test for AIDS?	76.00/Ea



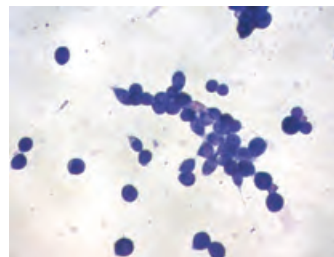
## Edvotek™ Eucaryotic Cell Biology Experiment Kit

Familiarizes students with simple, robust cell culture system.

- Used in life science research, biotechnology laboratories
- Provides student with skill set desired in both academic research and industry
- Contains live materials

### Time requirements:

- Basic cell culture techniques - 30 minutes
- Examination of Insect Cell Cultures - 30 minutes
- Maintenance of Insect Cell Cultures - 1 hour
- Cell Viability using Trypan Blue - 30 minutes
- Differential staining using Giemsa stain - Overnight

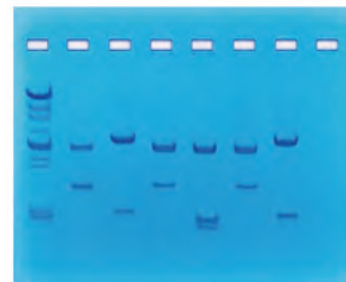


Cat. No.	Description	Price
S42877	EdvoTek™ Eucaryotic Cell Biology Experiment Kit	233.00/Ea

## Edvotek™ DNA Fingerprinting Using Restriction Enzymes

Learn about restriction enzymes.

- The objective of this simulated forensic analysis is to develop an understanding of DNA fingerprinting by use of restriction enzymes
- Hypothetical crime scene samples are provided in addition to DNA samples, restriction enzymes and reaction buffer to digest suspect's DNA
- Digestion products are separated by agarose gel electrophoresis
- Students determine the guilty suspect through identification of the unique restriction enzyme fragmentation patterns
- Does not contain human DNA
- Some components require refrigeration, some require freezing



### ORDERING INFORMATION:

Contains materials for six lanes (six lanes each) with InstaStain™ Methylene Blue.

### INCLUDES:

Crime scene DNA sample, pre-cut with Restriction Enzyme 1; Crime scene DNA sample, pre-cut with Restriction Enzyme 2; Suspect No. 1 DNA sample; Suspect No. 2 DNA sample; Standard DNA fragments; Enzyme reaction buffer; Dryzymes™ Restriction Enzyme 1 (*EcoRI*); Dryzymes Restriction Enzyme 2 (*HindIII*); Reconstitution buffer; Enzyme-grade water; 10X gel-loading solution; UltraSpec-Agarose™ powder; FlashBlue stain; 50X concentrated electrophoresis buffer; DNA Blue InstaStain sheets; 1mL pipets; Transfer pipets; Microtest tubes with attached caps

### REQUIRES:

Required: Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Water bath/Hotplate, Bunsen burner or microwave oven **Recommended:** DNA visualization system (white light); Staining tray and net; 250mL flasks; Pipet pump; Hot gloves; Marking pens; Distilled or deionized water; Ice

Cat. No.	Description	Price
S94610	DNA Fingerprinting Using Restriction Enzymes	138.00/Ea

## Edvotek™ What Does DNA Look Like?

Gain an appreciation for the physical nature of DNA.

Being able to extract DNA gives scientists the ability to study DNA structure and its biological functions. In this experiment, students spool DNA and are able to visualize the spooled DNA.

- Spooling can be viewed as a process that partially purifies and concentrates high-molecular weight DNA
- DNA will be spooled onto a glass rod from a buffer solution containing salts

**ORDERING INFORMATION:** Class size: 10 groups.

### INCLUDES:

- Concentrated chromosomal DNA
- Concentrated buffer

- Methylene Blue Plus™ stain (ready-to-use)
- 10 transfer pipets
- 10 glass rods
- 10 plastic disposable beakers
- Two calibrated transfer pipets
- Complete instructions, background information and study questions

### REQUIRES:

- Pipet pump
- 50 or 100mL graduated cylinder
- 20mL beakers
- 100mL beakers
- Test tubes, 13 × 100mm

- 95 to 99% isopropanol or 70% clear isopropyl alcohol (drugstore quality)
- Distilled water
- Paper towels
- Ice



Cat. No.	Description	Price
S94593	What Does DNA Look Like? Kit	53.75/Ea

## Edvotek™ Do Onions, Strawberries and Bananas Have DNA?

Students will participate in extracting DNA from fresh onion tissue.

- Perform techniques used by scientists to explore the characteristics of DNA and see how DNA looks to the naked eye
- Explain the function of DNA in cells
- Build a simulated DNA model
- Learn what DNA looks like in solution and after it is spooled
- Isolate DNA from onion, banana or tomato cells and spool it from the solution



### ORDERING INFORMATION:

Class size: five groups.

### INCLUDES:

DNA extraction buffer; DNA sample in capped test tube; Five transfer pipets; Pop beads for building DNA model; Glass rod; Four graduated test tubes; Five wood splints for DNA spooling; Salt packet; Complete instructions, background information and study questions

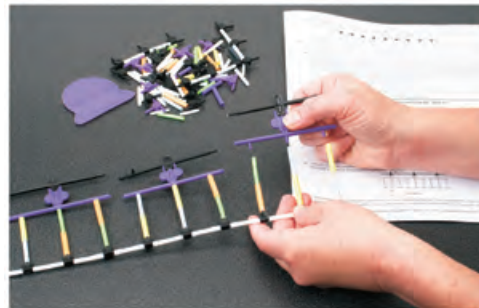
### REQUIRES:

Fresh onion pieces; Ripened fresh banana; Fresh strawberry pieces; 70% clear isopropyl alcohol (rubbing alcohol); Distilled water

Cat. No.	Description	Price
S94595	Do Onions, Strawberreis and Bananas Have DNA?	74.00/Ea

## LAB-AIDS™ DNA-, RNA-Protein Synthesis Modeling Kit

Build a DNA molecule, replicate it and use half of the “ladder” to construct messenger RNA (mRNA).



- Nucleotides of RNA are first produced following step-by-step directions Transcription in the nucleus and the movement of the mRNA molecule are simulated by matching mRNA codons to the transfer RNA (tRNA) and its anticodons The amino acids then bond to form a protein molecule
- Discover how the information stored in the DNA is expressed as a finished protein by disconnecting the protein chain from the tRNA
- The tRNAs from the mRNA show their availability to continue

Depicts:

- Deoxyribose Ribose Phosphate Hydrogen bonds Adenine Thymine Uracil Cytosine Guanine tRNA R groups Covalent bonds Ribosome

### INCLUDES:

12 sets of color-coded parts, teacher manual, background information and 24 student worksheets

Cat. No.	Description	Price
S19376	DNA/RNA-Protein Sythesis Model Kit	224.00/Ea

## K'NEX Education™ DNA Replication and Transcription Set

This wonderfully flexible set demonstrates DNA and mRNA molecules and processes.

Builds 19 models, two at a time.

- Students build and learn about phosphate groups, deoxyribose and ribose sugars, hydrogen bonds, codons, nucleotides, DNA structure, transcription and mRNA production, molecular basis of heredity and much more
- Pieces easily unsnap for replication and transcription activities
- Durable, stackable storage case has movable dividers and transparent lockable lid

Build models:

- Parent DNA molecule, unwound
- Parent DNA model as a flexible double helix
- Parent DNA molecule, stand-mounted
- Two parent/daughter DNA molecules, unwound
- Two parent/daughter DNA molecules, stand-mounted
- Large parent/daughter DNA molecule, flexible
- Two mRNA molecules transcribed from DNA molecule

### ORDERING INFORMATION:

Supports two to three students working as a team. Grades 5 to 12. Aligned to national and state standards.



### INCLUDES:

521 pieces; comprehensive teacher guide

Cat. No.	Description	Price
S68801	DNA, Replication and Transcription Kit; Single	66.25/Ea



## LAB-AIDS™ Molecular Model of DNA and its Replication

Construct a double helix of the DNA molecule. Lab-Aids Molecular Model of DNA and its Replication is a basic introduction to the double helix model of DNA using simple components developed exclusively by Lab-Aids™.



Double nitrogen pyrimidine bases are constructed proportionately larger in diameter than the single nitrogen purine bases. Bases are linked by a unique hydrogen bond. The deoxyribose sugar is pentagon-shaped representing its actual molecular structure. Twelve eight-rung models can be constructed with each kit or attach individual models together to form a giant double helix model that will be more than nine feet long.

- Materials to construct 12 models
- Up to 36 students/12 groups
- Requires one 50 minute class period
- Includes teacher's guide and student worksheets that have components of literacy skills

### Concepts Illustrated:

- Build a segment of the DNA molecule and see what a double helix is like
- Model can be "unzipped" allowing for replication of DNA segment

### ORDERING INFORMATION:

Class size: 12 students.

### INCLUDES:

12 color-coded components packets containing: 16 Deoxyribose-sugar groups - black linkage; 16 Phosphate groups - white tubes; 8 Nitrogen (purine) bases: 4 Adenine (A) - orange tubes, 4 Guanine (G) - yellow tubes; 8 Nitrogen (pyrimidine) bases: 4 Cytosine (C) - blue tubes, 4 Thymine (T) - green tubes; 8 Hydrogen bonds - opaque rods. One teacher's guide; 38 student worksheets and guides

Cat. No.	Description	Price
S19379	Molecular Model of DNA/Replication Kit	108.00/Ea

## United Scientific™ DNA Model Kit

Accurately depicts a 16-base-pair section of DNA.



- Built to a scale of 10cm to 1nm
- Phosphate-deoxyribose backbone and four bases represented by custom plastic moldings
- Shows shapes of molecules in scale and illustrates bonding between them
- Model is supported by a central pillar, which can rotate on a circular stand

### ORDERING INFORMATION:

Dimensions: 25 x 9 x 9 in. (63.5 x 22.9 x 22.9cm).

Cat. No.	Description	Price
S06991	DNA Model Kit	251.00/Ea

## United Scientific™ DNA Model

Pre-assembled DNA model built to a scale of 10cm to 1nm.

Accurately depicts a 16 base pair section of DNA.

- Phosphate-deoxyribose backbone and the four bases represented by custom plastic moldings
- Moldings show the shapes of the molecules in scale and illustrate the bonding between them
- Handedness of the backbone chains and the relative sizes of the major and minor grooves in the relaxed molecule are correctly portrayed
- Supported by a central pillar, which can rotate on a circular stand



### ORDERING INFORMATION:

Shipping weight: 2.5 lb.

Dimensions: 25 x 9 x 9 in.

Cat. No.	Description	Price
S05910	DNA Model	80.00/Ea

## Edvotek™ DNA Damage and Repair

Students can see firsthand the damage done by UV light.

According to the World Health Organization, between 2 and 3 million cases of skin cancer occur globally every year. Many of these cancers are caused by preventable damage to DNA by UV light during sunbathing.

- Students expose plasmid DNA to shortwave UV light to simulate the effect of sunbathing
- DNA is then analyzed by agarose gel electrophoresis to observe the damage
- Complete in two hours

**ORDERING INFORMATION:** For 10 groups.

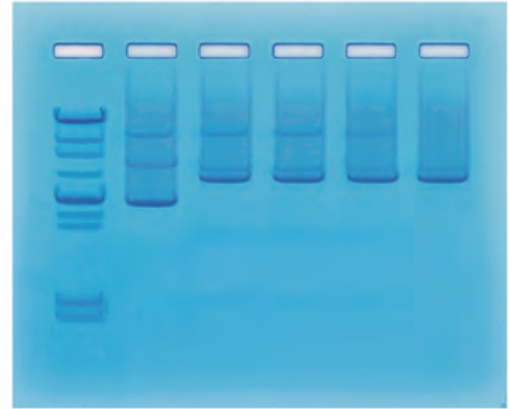
### INCLUDES:

- Instructions
- Standard DNA fragments
- Plasmid DNA
- Gel-loading solution
- Agarose
- Electrophoresis buffer
- 1mL pipet

- Microtest tubes
- 100mL graduated cylinder
- InstaStain™ Ethidium Bromide

### REQUIRES:

- UV transilluminator
- Electrophoresis apparatus
- Power supply
- Microwave or hotplate



Cat. No.	Description	Price
S05694	UV Damage and Repair	144.00/Ea

## Edvotek™ Genes in a Tube

Students can transfer their DNA to a tube that can be worn as a pendant.

- Students extract and precipitate their own DNA
- Transfer to tube or save on DNA report card

### ORDERING INFORMATION:

Class size: 26 students.

### INCLUDES:

- Lysis buffer
- NaCl solution
- Protease
- Tris buffer
- Methylene Blue Plus™ solution
- Microcentrifuge tubes

- Sterile cotton-tipped applicators
- Transfer pipets
- Tubes for DNA precipitation
- Gene Tubes™
- String
- DNA report cards
- Instructions and study questions

### REQUIRES:

Ice cold alcohol (95% ethanol or isopropyl alcohol) and a water bath (56°C)



Cat. No.	Description	Price
S68635	DNA Report Card	136.00/Ea



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## Edvotek™ DNA Fingerprinting by PCR Amplification

Demonstrates the utility of DNA amplification in forensics.

- Forensic DNA fingerprinting has become a universally accepted crime-fighting tool. Recent advances use the Polymerase Chain Reaction (PCR) to amplify human DNA obtained from crime scenes
- Develop a basic understanding of DNA fingerprinting
- Experiment is based on a crime scene scenario and has an inquiry-based component
- Enables varied results depending on the selection of DNA fingerprinting patterns
- Students analyze PCR reactions obtained from different suspects and compare them to a crime scene sample
- Does not contain human DNA

### ORDERING INFORMATION:

Contains materials for eight gels with InstaStain™ Methylene Blue.

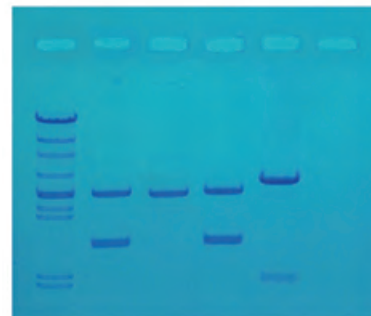
### INCLUDES:

Ready-to-Load™ DNA samples; Practice gel-loading solution; UltraSpec-Agarose™ powder; Concentrated electrophoresis buffer; InstaStain Blue; FlashBlue stain; Methylene

Blue Plus™ stain; 1 mL pipet; Microtipped transfer pipets; Complete instructions, background information and study questions

### REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Balance; Microwave, hot plate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats (for gel destaining); DNA visualization system (white light); Distilled or deionized water



Cat. No.	Description	Price
S94607	DNA Fingerprinting by PCR Amplification	122.00/Ea

## Edvotek™ DNA Fingerprinting: Identification of DNA by Restriction Fragmentation Patterns

Reveals techniques used in forensic and medical procedures.

- Introduces the basic concepts of DNA fingerprinting
- Does not contain human DNA

### ORDERING INFORMATION:

Contains enough materials for six gels, six lanes per gel.

### INCLUDES:

Basic reagents and biologicals for DNA fragmentation pattern analysis; Predigested DNA samples; Concentrated methylene stain; Practice gel-loading solution; Study questions, background information and instructions

### REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Staining tray; Visualization system (white light); Micropipets with tips to obtain samples for five gels; 250mL flasks or beakers; Distilled or deionized water; Hotplate, Bunsen burner or microwave; Balance



Cat. No.	Description	Price
S11109	DNA Fingerprinting: Identification of DNA by Restriction Fragmentation Patterns	131.00/Ea

## Edvotek™ DNA/RNA Microarrays

Membrane microarray technology enables scientists to screen large numbers of samples in one assay.

Benefit from cost savings by reducing the sample size, while saving time and yielding accurate results.

- Students apply simulated DNA and RNA samples to a membrane to screen for positive and negative samples
- Complete in one hour

### ORDERING INFORMATION:

For 10 groups.

### INCLUDES:

- Instructions
- Simulated patient DNA and RNA samples and controls
- Microarray cards
- Plastic bags to incubate membrane
- Microtest tubes
- Pipets

### REQUIRES:

Automatic micropipets and tips, distilled water and beakers or flasks

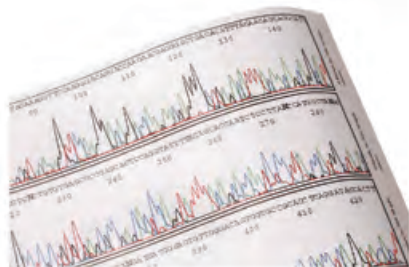


Cat. No.	Description	Price
S05648	DNA/RNA Microarrays	138.00/Ea



## Edvotek™ Sequencing the Human Genome

Use the Internet and included DNA sequence data to sequence the human genome.



- Determine the DNA sequence
- Compare and extrapolate database information
- Identify the gene product and other closely related proteins

**ORDERING INFORMATION:** Class size: 10 groups.

### INCLUDES:

- Automated sequencing printouts
- Complete instructions, background information and study questions

### REQUIRES:

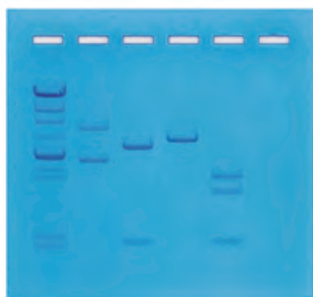
Computer access to the Internet

Cat. No.	Description	Price
S67265	Sequencing the Human Genome	106.00/Ea

## Edvotek™ Restriction Enzyme Mapping

A prerequisite to cloning and DNA sequencing  
In this intermediate experiment, plasmid DNA is cleaved with different combinations of restriction enzymes.

- Determine relative positions of the restriction sites by using fragment size and agarose gel electrophoresis
- Establishing these positions is a prerequisite to cloning and DNA sequencing
- Designed for six digestions.



### INCLUDES:

All necessary DNA, buffers and chemicals, complete instructions, background information and study questions

### REQUIRES:

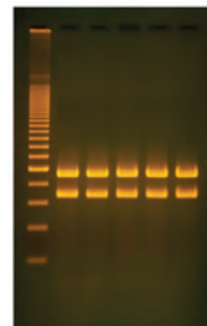
Horizontal gel electrophoresis apparatus; hotplate; micropipetter; balance; waterbath; weigh boats; floating racks; white light visualization system; pipets; pipet pump or bulb; glassware; metric rulers; ice; all necessary safety equipment; distilled or deionized water

Cat. No.	Description	Price
S67264	Mapping Kit; For Restriction Enzymes	183.00/Ea

## Edvotek™ Mitochondrial DNA Analysis Using PCR

Advanced-level experiment uses the Polymerase Chain Reaction (PCR) to amplify a specific region of the mitochondrial chromosome and perform gel electrophoresis.

- Energy within the cell is produced by the organelles called mitochondria, which have their own DNA (mtDNA)
- Mitochondrial diseases have been mapped to the mtDNA chromosome
- Forensic identification also commonly examines mtDNA



### ORDERING INFORMATION:

Contains materials for 25 individual reactions and six gels.

### INCLUDES:

All buffers, reagents, solutions, biological material, complete instructions, background information and study questions

### REQUIRES:

- Thermal cycler
- Horizontal gel electrophoresis apparatus
- Microcentrifuge
- Hotplate
- Micropipets
- Balance
- Water bath
- UV transilluminator
- 500mL flasks
- All necessary safety equipment
- Distilled or deionized water

Cat. No.	Description	Price
S66822	Mitochondrial DNA Analysis Using PCR	261.00/Ea

## Edvotek™ DNA Bioinformatics Experiment

Access and learn from bioinformatics data.

Genome initiatives and research groups around the world compile DNA sequence information. Management of this data is known as bioinformatics.

- Access databases via the Internet
- Read X-rays containing DNA sequences
- Complete in 45 minutes

### ORDERING INFORMATION:

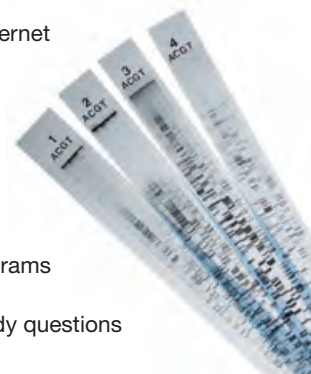
Class size: 12 groups.

### INCLUDES:

- Three sets of four autoradiograms
- Complete instructions
- Background information Study questions

### REQUIRES:

- Visualization (white light)
- Computer access to the Internet



Cat. No.	Description	Price
S67266	DNA Bioinformatics Experiment	132.00/Ea

## Edvotek™ Purification and Size Determination of Green and Blue Fluorescent Proteins

The unique fluorescent properties of GFP and BFP will be used as an assay during their purification from an *E. coli* extract.

When bacteria are used to make medically useful proteins by transformation, the protein of interest must be separated from all of the other cellular proteins.

- Unique fluorescent properties of GFP and BFP are used as an assay during their purification from an *E. coli* extract
- Column fractions containing GFP or BFP are identified by fluorescence and then purified
- As an optional activity, purified protein fractions can be separated by SDS polyacrylamide gel electrophoresis to estimate the purity and size of the GFP and BFP proteins

### Experiment times:

- Packing and running column, 45 minutes
- Optional electrophoresis, one hour
- Staining, 30 minutes
- Destaining, two hours

### ORDERING INFORMATION:

For six lab groups.

### INCLUDES:

- Instructions
- Columns and matrix
- GFP and BFP extracts
- Buffer
- Protein gel reagents for optional activity

### REQUIRES:

- Water bath
- Longwave UV lamp
- Ring stand and clamps
- Automatic micropipet
- Vertical gel electrophoresis apparatus
- Power supply
- Microwave or hotplate
- Polyacrylamide gels (12%)



Cat. No.	Description	Price
S05651	Purification and Size Determination of GFP and BFP	126.00/Ea

## Edvotek™ DNA DuraGel™

Designed for students to learn pipetting samples in agarose gels.

- Reusable
- Clear simulation of a gel plus practice gel-loading solution
- Has two sets of different well sizes for pipetting 5 to 35µL of samples
- Save preparation time and expense of pouring agarose practice gels



Cat. No.	Device Holds	Description	Price
S05711	6 Gels (12 to 24 students)	6 Reusable DNA DuraGel™, 4 FlashBlue™ and 4 Ethidium Bromide gel images, practice gel loading solution and mini-transfer pipets	95.00/Ea
S05712	6 Gels (4 to 8 students)	2 Reusable DNA DuraGel™, 2 FlashBlue™ and 2 Ethidium Bromide gel images, practice gel loading solution and mini-transfer pipets	45.50/Ea

## Edvotek™ Principles and Practice of Agarose Gel Electrophoresis

Introduce basic concepts and procedures of agarose gel electrophoresis with this complete experiment.

- For eight gels
- Demonstrate gel casting, sample application and separation
- Use a selected set of colored dyes that have different properties and various rates of mobility

### REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; visualization system (white light); pipet pump and hotplate; 250mL flasks and distilled or deionized water



Cat. No.	Description	Price
S11101	Principles and Practice - Agarose Gel	80.00/Ea

## Immunology

## Edvotek™ Determination of Protein Molecular Weight (Polyacrylamide-based)

Using prestained LyphoProteins™, subunit molecular weights are determined by analysis using denaturing SDS vertical polyacrylamide gel electrophoresis.

- Prestained proteins with unknown molecular weights are assigned molecular weights based on the relative mobility of prestained standard protein markers

### Experiment times:

- Electrophoresis, one hour
- Staining, 20 minutes
- Destaining, two hours

### ORDERING INFORMATION:

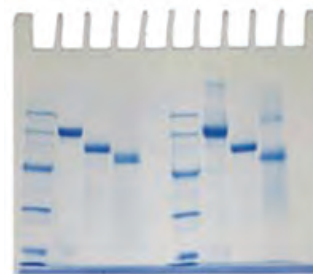
For six groups sharing three gels.

### INCLUDES:

Instructions; Denatured LyphoProtein samples; Standard protein markers; Gel-loading solution; Buffer; Protein InstaStain™

### REQUIRES:

Three polyacrylamide gels (12%); MV10 vertical gel electrophoresis apparatus; Power supply; Hotplate or burner; Visualization (white light); Automatic micropipet with fine tips; Microtest tube holder; Lab glassware; Methanol; Glacial acetic acid; Distilled or deionized water



Cat. No.	Description	Price
S05636	Determination of Protein Molecular Weight	73.75/Ea

## Edvotek™ Diversity of Fish Proteins

Determine the relationship between three fish species based on their protein profiles.

Study the diversity of fish with these prestained, lyophilized proteins.

- Students extract and prestain total protein from perch, walleye and salmon using an indicator dye
- After separating each fish protein sample by denaturing SDS-polyacrylamide gel electrophoresis, students find a characteristic banding pattern. Pattern can be used to identify the specific species

### Experiment times:

- Electrophoresis, one hour
- Staining, 20 minutes
- Destaining, two hours

### ORDERING INFORMATION:

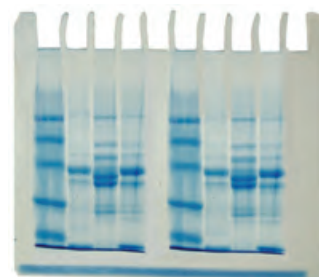
For six groups sharing three gels.

### INCLUDES:

Instructions, fish LyphoProtein™ samples, protein molecular weight standards, practice gel-loading solution, buffer and Protein InstaStain™

### REQUIRES:

- Three polyacrylamide gels (12%)
- MV10 vertical gel electrophoresis apparatus
- Power supply
- Microcentrifuge
- Hotplate or burner
- Vortex
- Visualization (white light)
- Automatic micropipet with fine tips
- Test tube holders
- Lab glassware
- Methanol
- Glacial acetic acid
- Distilled water



Cat. No.	Description	Price
S05650	Diversity of Bacterial Proteins	87.00/Ea

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## Edvotek™ Affinity Chromatography of Glucose-Binding Proteins

Isolate a carbohydrate-binding lectin protein from an extract of jack bean meal.

Affinity chromatography is applied to the purification of biologically active molecules. A ligand is coupled to an insoluble support. The specific protein binds to the ligand, which results in the separation of a specific protein from a mixture.

- Students prepare a seed extract, fractionate the extract by affinity chromatography and elute the bound glucose-binding protein
- As a second experiment, the presence of biological activity is determined by an immunoblot enzyme assay
- Requires two hours

### ORDERING INFORMATION:

For 10 groups.

### INCLUDES:

- Instructions
- Affinity gel
- Jack bean meal
- Con A control
- Horseradish peroxidase
- Hydrogen peroxide
- Peroxidase substrate dilution buffers
- NaCl
- NaCl/Dextrose
- Nitrocellulose membranes
- Petri plates
- Conical tubes
- Columns with tips

### REQUIRES:

- Clinical centrifuge
- Vortex or shaking platform
- Micropipet and tips
- Ring stands and clamps
- Lab glassware
- Pipets and pumps
- Microtest tubes
- Forceps
- Water



Cat. No.	Description	Price
S05653	Affinity Chromatography - Glucose Binding Proteins	155.00/Ea

## Edvotek™ Quantitative ELISA Laboratory Activity

Antibodies are highly specific in their recognition of antigens.

- ELISA experiment demonstrates the quantification of varying concentrations of viral antigens as detected by the intensity of the color reaction due to the accumulation of products
- Meets the requirements in the BSCS Blue Biology curriculum
- Complete in two hours

### ORDERING INFORMATION:

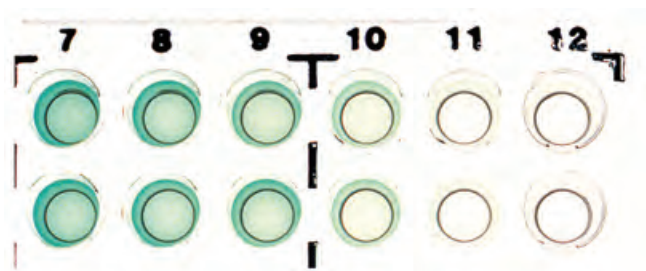
For six lab groups.

### INCLUDES:

- Instructions
- Antigens
- Primary and secondary antibodies
- Substrate solution
- Phosphate buffered saline
- Blocking agent
- Stop solution
- Tubes
- Plates
- Transfer pipets

### REQUIRES:

- Distilled or deionized water
- 37°C incubation oven
- Automatic micropipets with tips
- Laboratory glassware



Cat. No.	Description	Price
S05654	Quantitative ELISA Laboratory Activity	155.00/Ea

## Edvotek™ Lighting Up Life: Expression of GFP in C. elegans Experiment Kit

Students use fluorescent microscopy and PCR to analyze *C. elegans* (nematodes) that have been engineered to express the Green Fluorescent Protein (GFP).

Scientists can directly manipulate an organism's genome to produce a phenotype using engineered genes called transgenes

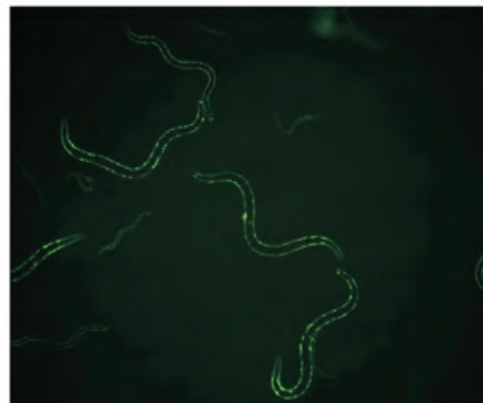
Detailed time:

- Growing Bacteria : Overnight
- Plating Worms: 15 minutes
- Worm Growth: 3-4 Days
- Set Up: 30 minutes
- PCR: 2 hours or overnight
- Electrophoresis: 90 minutes

### INCLUDES:

Instructions, *C. elegans*, *E. coli* OP50 cells, S-Buffer, Ready-Pour NGM Agar, NGM Medium Salts, UltraSpec-Agarose™ powder, electrophoresis buffer (50x), 10x Gel Loading Solution, InstaStain™ Ethidium Bromide, FlashBlue™ Liquid Stain, tubes, pipets, wax beads, petri dishes, counting chamber, microscope slides, sterile loops

Cat. No.	Description	Price
S20858	Lighting Up Life: Expression of GFP in <i>C. elegans</i> Experiment Kit	232.00/Ea



### REQUIRES:

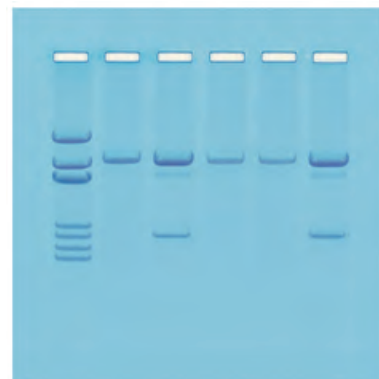
Covered box, fluorescent and dissecting microscopes, timers, waterbath, incubator (optional), thermal cycler or three waterbaths, electrophoresis apparatus, power supply, balance, microcentrifuge, UV transilluminator or white light visualization system, automatic micropipets with tips, microwave or hot plate, pipet pump, flasks or beakers, hot gloves, distilled or deionized water, ice buckets and ice

## Edvotek™ Detection of Genetically Modified Organisms Kit

Use of agarose gel electrophoresis to explore molecular methods used by scientists to identify genetically modified organisms.

- No thermal cycler is required
- Students are encouraged to explore controversy surrounding use of genetically modified organisms
- For 8 gels
- Completes in 60 minutes
- **Includes:** Instructions, Ready-to-Load™ QuickStrip™ DNA samples, UltraSpec-Agarose™ powder, practice gel loading solution, electrophoresis buffer, InstaStain™ Blue and FlashBlue™ stain, calibrated pipette, and microtipped transfer pipettes
- **Materials needed:** Electrophoresis apparatus, power supply, automatic micropipet and tips, balance, microwave or hot plate, white light visualization system

- **Storage:** Stable at room temperature. Recommended to store Ready-to-Load QuickStrip™ samples in refrigerator



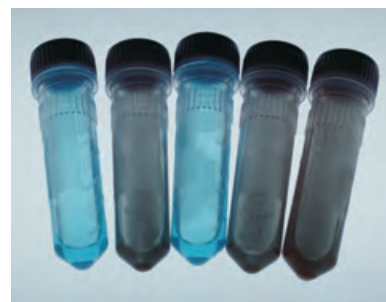
Cat. No.	Description	Price
S21121	Detection of Genetically Modified Organisms Kit	105.00/Ea

## Edvotek™ Detecting the Silent Killer: Clinical Diagnosis of Diabetes

Diagnose diabetes in three patients using urine glucose test and Enzyme-linked Immunosorbent Assay (ELISA).

- For 10 lab groups
- Complete in 90 minutes
- **Includes:** Instructions, samples, antigens and antibodies, various solutions and reagents, pipettes and microtest tubes
- **Materials needed:** 37°C incubation oven, waterbath, automatic micropipets with tips, laboratory glassware, distilled or deionized water

- **Storage:** Some components require refrigerator storage



Cat. No.	Description	Price
S21280	Detecting the Silent Killer: Clinical Diagnosis of Diabetes Kit	175.00/Ea

## Edvotek™ AIDS Kit II: Simulation of HIV Detection by Western Blot

Provides a comprehensive introduction to the molecular biology and pathogenesis of AIDS.



- Separate protein samples using horizontal agarose electrophoresis
- Samples are transferred to a membrane and detected by staining
- Demonstrate the concepts and methodology involved with Western blots

Instructor's Guide provides:

- Pre-lab preparations and common pitfalls to avoid
- Answers to study questions and MSDS sheets

**Does not contain HIV or its derivatives. No components have been prepared from human sources.**

### INCLUDES:

All biological material necessary for six blots, as well as study materials

### REQUIRES:

- Horizontal gel electrophoresis apparatus
- Hotplate, micropipets, incubation oven and shaker platform
- All necessary safety equipment
- Isopropanol, glacial acetic acid and distilled water

Cat. No.	Description	Price
S66751	HIV Detection By Western Blot	172.00/Ea

## Edvotek™ Detection of a Simulated Infectious Agent

Tracking an outbreak by understanding the pattern of disease transmission.



- Students observe pattern of transmission
- Dye spots act as surrogates for actual infection
- Students become “infected” with dye spots
- “Infection” can only be detected under black lights
- Contains no infectious materials

### ORDERING INFORMATION:

Class size: 10 groups.

### INCLUDES:

- All necessary materials except those listed under Requires (below)
- Complete instructions, background information and study questions

### REQUIRES:

- Safety goggles
- Additional long UV Mini-Lights (recommended)
- Lab coats or protective clothing

## Edvotek™ Introduction to ELISA Reactions Kit

Teaches students the concepts of the Enzyme Linked Immunosorbent Assay (ELISA).

- Determine the reaction steps of ELISA — a precise and sensitive antibody-based detection method for antigens such as bacterial and viral proteins
- Perishable items shipped separately
- No components have been prepared from human sources.

### ORDERING INFORMATION:

Class size: 10 lab groups.

### INCLUDES:

- Antigens
- Primary antibody, Anti-IgG-peroxidase conjugate (secondary antibody)
- Stabilized hydrogen peroxide
- Peroxide co-substrate, ABTS substrate
- Phosphate buffered saline concentrate
- Two microtiter plates
- Transfer pipets Microtest tubes with attached caps, 15mL plastic tubes



### REQUIRES:

- Distilled or deionized water
- Beakers
- 37°C incubation oven
- Disposable lab gloves
- Safety goggles
- Automatic micropipets (0 to 50µL) and tips recommended

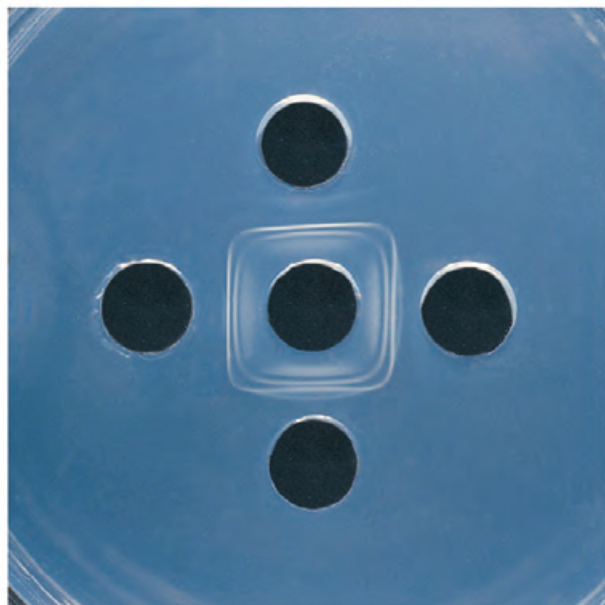
Cat. No.	Description	Price
S67193	Detection Kit for Simulated Infectious Agent	143.00/Ea

Cat. No.	Description	Price
S90245ND	ELISA Reactions Kit	159.00/Ea



## Edvotek™ Antigen-Antibody Interaction: The Ouchterlony Procedure Kit

Introduce students to the principles of antigen-antibody interactions using the Ouchterlony procedure.



- Demonstrates a fundamental reaction of immunology — the binding interaction of an antibody to an antigen and its resulting precipitate, which makes it possible to assay
- No components have been prepared from human sources.

### ORDERING INFORMATION:

Class size: 10 lab groups.

#### INCLUDES:

- Separate samples containing animal anti-serum, animal serum, albumin antigen and IgG antigen
- Package of powdered buffer and package of UltraSpec-Agarose™
- Tube of practice loading solution
- 40 transfer pipets
- 40 Petri dishes
- 10 well cutters
- Template for cutting wells
- 40 microtest tubes

#### REQUIRES:

- Micropipet and tips
- Plastic container or glass baking dish
- Plastic wrap
- Distilled water
- Pipets, 5 or 10mL
- Marking pen
- Measuring spatula or toothpicks
- Hotplate, Bunsen burner or microwave
- Paper towels
- Water bath (55°C [131°F])

## Edvotek™ Radial Immunodiffusion Kit

Introductory-level experiment quantitatively determines the unknown concentration of an antigen.



- Antibody is incorporated into liquefied agar and allowed to gel; antigen is introduced by circular wells
- Sensitive and quantitative
- No experiment components contain human serum.

### ORDERING INFORMATION:

Class size: 10 lab groups.

#### INCLUDES:

- Antibody solution
- Standard antigen solution
- UltraSpec-Agarose™ powder and buffer powder
- Unknown concentration of antigen
- Sleeve of Petri dishes
- Two 10mL pipets
- 10 well cutters
- 80 transfer pipets
- 70 microtest tubes
- Graph paper template
- Practice loading solution

#### REQUIRES:

- Automatic micropipets and tips (5 to 50µL)
- Pipet pumps for 10mL pipets
- Ruler
- Plastic box or dish
- Plastic wrap
- Foil
- Paper towels
- Distilled water
- Hotplate, Bunsen burner or microwave
- 400 to 600mL beaker or Erlenmeyer flask
- 150mL beaker or flask
- Water bath (55°C [131°F])
- 250mL graduated cylinder
- 37°C (98.6°F) incubation oven

Cat. No.	Description	Price
S90246ND	Ouchterlony Procedure Kit	159.00/Ea

Cat. No.	Description	Price
S90248ND	Radial Immunodiffusion Kit	159.00/Ea

## LAB-AIDS™ Tracking the Spread of Infectious Diseases

The activity in this kit simulates the transmission of a contagious disease. Lab-Aids™ Tracking the Spread of Infectious Diseases simulates the steps epidemiologists take to try to determine its source and limit its spread.



Contagious diseases can spread quickly through a population. If an infected individual mingles with healthy individuals, random contact can cause many more to become infected. This activity simulates the transmission of a contagious disease and the steps epidemiologists take to try to determine its source and limit its spread. Two scenarios are provided, one for an infection spreading among humans and another among livestock. If desired, the kit materials also can be used to simulate different “trackable” spreading event scenarios such as an invasive species or an outbreak of food poisoning.

- Maximum 24 students
- 1-2 50 minute class periods
- Student worksheets incorporate literacy skills

### Concepts Illustrated:

- Disease is a breakdown in structures or functions of an organism
- Scientific explanations emphasize evidence, have logically consistent arguments, and use scientific principles, models and theories
- Safe living involves the development and use of safety precautions and recognition of risk in personal decisions
- Important personal and social decisions are made based on perceptions of benefits and risks

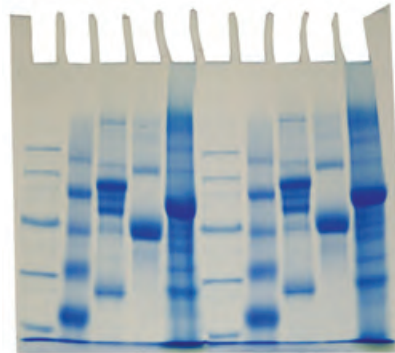
### INCLUDES:

Teacher's guide; 28 student worksheets and guides; 24 100mL plastic cups; 15mL drop control bottle of 2% sodium carbonate solution; 30mL drop control bottle of “Infection Test Solution”; Transparency: Class Infection History; SDS packet

Cat. No.	Description	Price
S20956	Kit: Tracking the Spread of Infectious Diseases	36.00/Ea

## Edvotek™ Survey of Protein Diversity

Polyacrylamide-based.



- Students learn about the diversity of proteins by studying the electrophoretic profiles of various sources
- Students separate proteins from bacterial, plant, serum and milk proteins alongside a standard protein marker

### ORDERING INFORMATION:

For six groups sharing three gels.

### INCLUDES:

Instructions; Denatured LyphoProtein™ samples; Standard protein markers; Gel-loading solution; Buffer; Protein InstaStain™

Cat. No.	Description	Price
S05635	Survey of Protein Diversity	73.75/Ea

## Bacterial Biotechnology

## Edvotek™ Transformation of *E. coli* with pGAL™ (Blue Colony)

Presence of IPTG is not required.

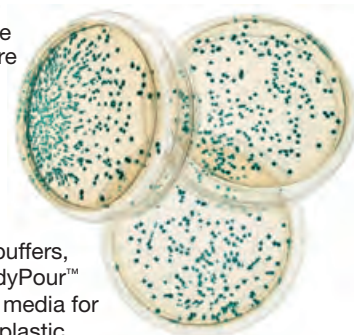
- Observe transformants exhibiting a blue color as a result of the incorporation and expression of  $\beta$ -galactosidase and ampicillin-resistant genes
- Some components require refrigeration, others require freezer storage

### ORDERING INFORMATION:

Contains materials for 10 transformations.

### INCLUDES:

BactoBeads, plasmid DNA, buffers, reagents and antibiotic; ReadyPour™ Luria Broth agar; Luria Broth media for recovery; 40 Petri plates; 20 plastic microtipped transfer pipets; Three wrapped 10mL pipets and 25 wrapped 1mL pipets; 20 inoculating loops; 40 microtest tubes with attached lids; Complete instructions, background information and study questions



Cat. No.	Description	Price
S11293	Transformation Kit; Organism: <i>E. coli</i> ; Plasmid: pGAL (Blue Colony)	156.00/Ea

## Edvotek™ Exploring the Infectious Nature of Viruses Experiment Kit

For learning about the different life cycles of bacterial viruses.

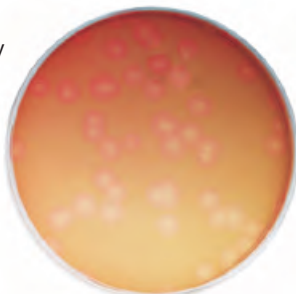
Although bacterial viruses, or bacteriophages, are present in many natural environments, they cannot survive autonomously. They require a host cell to reproduce and survive.

### INCLUDES:

Instructions, cells, phage beads, Ready-Pour Agar, COLORTOP™ Agar, microtest tubes, sterile loops, petri plates, luria broth, PBS

### REQUIRES:

37°C incubation oven, waterbath, automatic micropipets with tips



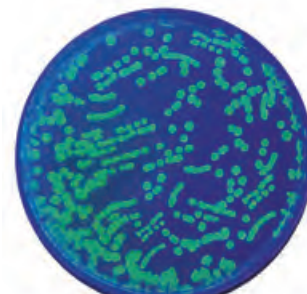
## Edvotek™ Transformation of *E. coli* with Green Fluorescent Protein (GFP)

GFP gene was isolated and cloned from the jellyfish *Aequorea victoria*.

- Transformants acquire plasmid containing green fluorescent protein (GFP)
- Transformant colonies that contain the GFP protein are visibly green and will fluoresce when exposed to black light

### ORDERING INFORMATION:

Contains materials for 10 transformations and controls.



Cat. No.	Description	Price
S21209	Exploring the Infectious Nature of Viruses Experiment Kit	135.00/Ea

Cat. No.	Description	Price
S68654	Transformation of <i>E. coli</i>	130.00/Ea

## Edvotek™ Rainbow Transformation Kit

Allows for the selection, propagation, expression and purification of a gene.

Students transform bacteria with a new set of rainbow color plasmids that transform non-pathogenic bacterial cells into bright, colorful cells

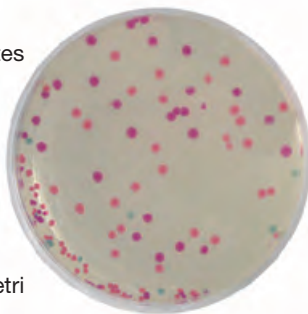
- For 10 Lab Groups
- Set Up and Plating - 50 minutes
- Overnight incubation
- Transformation efficiency - 15 minutes

### INCLUDES:

Instructions, BactoBeads™, plasmid DNA, IPTG, ampicillin, transformation solution, ReadyPour™ Agar, Luria broth, petri dishes, sterile pipets, loops and microtubes

### REQUIRES:

Waterbath, 37°C incubation oven, microwave or hot plate



Cat. No.	Description	Price
S21224	Rainbow Transformation Kit	135.00/Ea

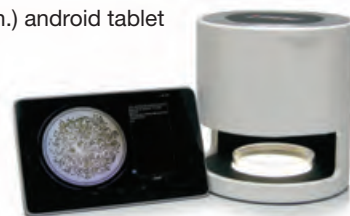
## IncuCount Automatic Colony Counter 150

Counts colonies/antibiotic reactions in a matter of seconds.

- Easy to use 25.4cm (10 in.) android tablet
- Intuitive software
- Auto focus with override capabilities

### Specifications:

- CPU: Android based operating system
- Lights: High intensity LED (top and bottom)
- Petri dish capacity: Up to 100mm, including 3M Petri Film
- Camera: High quality HD digital camera, Carl Zeiss Optics
- Power requirements: 100-240 VAC 50/60Hz, 1.5Amp
- Compatible with FDA 21 CFR part 11, export as PDF
- Auto focus with override capabilities



Note: For Research use only. Not for any human therapeutic or diagnostic use.

### CERTIFICATIONS:

UL approved LED lights, power supply, and camera

Cat. No.	Description	Price
S20821	IncuCount Automatic Colony Counter	4306.00/Ea



# Solutions to Take You Further, Faster

Shop products designed to help ensure reliable results through efficient research.

Description	Quantity	Cat. No.
<b>Antibodies &amp; Purification</b>		
Invitrogen™ Molecular Probes™ Image-iT™ Fixation/Permeabilization Kit	Each	R37602
Invitrogen™ Novex™ DYNAL™ Dynabeads™ Protein G for Immunoprecipitation	1mL	10-003D
<b>Bacterial Culture</b>		
Invitrogen™ Luria Broth Base, Powder	500g	12-795-027
Invitrogen LB Agar, Powder	500g	22-700-025
Invitrogen LB Broth Base	500g	12-780-052
Invitrogen™ Subcloning Efficiency™ DH5α™ Competent Cells	40 Reactions	18-265-017
<b>Cell Counting</b>		
Invitrogen™ Chamber Slides for Countess™ Cell Counter	50 Slides	C10228
Gibco™ Trypan Blue Solution, 0.4%	100mL	15-250-061
<b>Cell Culture Media &amp; Additives</b>		
Gibco™ DMEM/F-12, GlutaMAX™ Supplement	10 x 500mL	10-565-042
Gibco RPMI 1640 Medium, GlutaMAX Liquid Supplement	10 x 500mL	61-870-127
Gibco PBS Solution, 1X, pH 7.4	500mL	10-010-023
Gibco RPMI 1640 Medium (ATCC Modification), HEPES, Liquid	500mL	A1049101
Gibco Trypsin-EDTA (0.05%), 1X, Phenol Red	20 x 100mL	25-300-120
Gibco Penicillin-Streptomycin (10,000 U/mL)	100mL	15-140-122
Gibco Fungizone™ Antimycotic	20mL	15-290-018
Gibco™ One Shot™ Qualified Fetal Bovine Serum	50mL	A3160601
<b>Electrophoresis &amp; Stains</b>		
Invitrogen™ E-Gel™ General Purpose Agarose Gels, 2%, 12 Wells	18 Gels	G501802
Invitrogen E-Gel Agarose Gels with SYBR Safe™ DNA Gel Stain, 2%, 12 Wells	18 Gels	G521802
Invitrogen 1 Kb Plus DNA Ladder, 100 to 1,500 bp	500 Applications	10-787-018
Invitrogen E-Gel Power Snap Electrophoresis Device Starter Kit, EX, 1%	Each	G8141ST
Invitrogen E-Gel Power Snap Electrophoresis Device	Each	G8100
Invitrogen Novex Tris-Glycine SDS Running Buffer (10X)	500mL	LC2675
Invitrogen™ SYBR™ Safe™ DNA Gel Stain	400µL	S33102
Invitrogen SYBR Green I Nucleic Acid Gel Stain, 10,000X Concentrate in DMSO	500µL	S7563
<b>PCR</b>		
Invitrogen™ PureLink™ Genomic DNA Mini Kit	50 Preps	K182001
Applied Biosystems™ TaqMan® Sample-to-SNP™ Kit	Each	44-033-13
Applied Biosystems™ Fast SYBR™ Green Master Mix	1 x 5mL	43-856-12
Applied Biosystems™ MicroAmp™ Optical 96-Well Reaction Plates	10 Plates	N8010560
Invitrogen™ UltraPure™ Salmon Sperm DNA Solution	5 x 1mL	15-632-011
Invitrogen UltraPure DNase- and RNase-Free Distilled Water	500mL	10-977-015
<b>Transfection</b>		
Invitrogen™ Lipofectamine™ 2000 Transfection Reagent	1.5mL	11-668-019
Invitrogen Lipofectamine 3000 Transfection Reagent	0.1mL	L3000001

Visit [fisheredu.com](http://fisheredu.com) or contact your Fisher Science Education sales representative to access our full selection of products.

## Electrophoresis

## Edvotek™ In Search of the Invisible DNA: A Genetics Exploration

Can your students solve the mystery of the invisible bands?

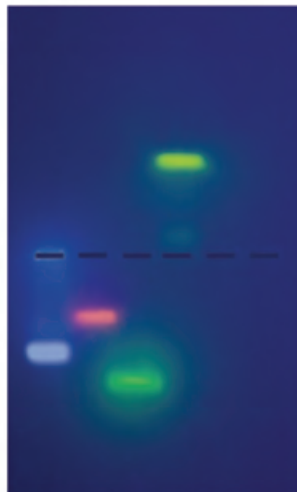
- Innovative, exciting experiment brings fluorescence to your electrophoresis lab

### ORDERING INFORMATION:

Class size: 10 lab groups.

### INCLUDES:

Ready-to-Load™ dye samples; Agarose powder; Practice gel-loading solution; Electrophoresis buffer; Microtipped transfer pipets; Instructions



### REQUIRES:

Electrophoresis tank; Power supply; Black light

Cat. No.	Description	Price
S96376	The Case of the Invisible Bands Kit	88.00/Ea

## DNA Paternity Testing Electrophoresis Lab Activity Educational Kit

Activity to perform electrophoresis to separate DNA samples of a child, mother, and two potential fathers to determine if either father is a possible paternal match. Innovating Science DNA Paternity Testing Electrophoresis Lab Activity Educational Kit, allows testing of child's paternal relationship by comparing the child's DNA profile to the profile of the mother and possible father to determine if an individual is the father or not.

- Contains enough materials for 8 groups of students
- Includes a Teacher's Guide and Student Study Guide copymasters

### INCLUDES:

200mL Prepared Agarose 0.8% Solution; 500mL Tris Borate EDTA Buffer 5X; 60mL DNA Stain; 10µg Mother's DNA Sample; 10µg Child's DNA Sample; 10µg Possible Father #1 DNA Sample; 10µg Possible Father #2 DNA Sample



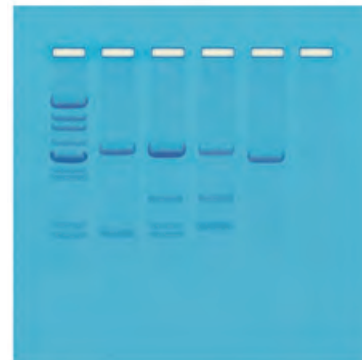
Cat. No.	Description	Price
S28494	DNA Paternity Testing Electrophoresis Lab Activity Educational Kit	99.00/Ea

## Edvotek™ DNA Paternity Testing Simulation Kit

This experiment introduces students to the use of DNA fingerprinting in a hypothetical paternity determination. The experiment does not contain human DNA.

### REQUIRES:

- Horizontal Gel Electrophoresis apparatus
- Water bath
- Visualization system (white light)
- Micropipets
- Hot-hand protector
- Deionized water
- 250mL beakers
- Hotplate or Bunsen burner
- Photodocumentation system



Cat. No.	Description	Price
S11114	DNA Paternity Testing Simulation Kit	127.00/Ea

## Edvotek™ Linking STEM to Agarose Gel Electrophoresis Educational Kit

Help students to learn about application of gel electrophoresis in DNA Fingerprinting, DNA Paternity Testing, Genetics (related to health and well-being), and the detection of Genetically Modified Foods. Edvotek™ Linking STEM to Agarose Gel Electrophoresis kit is supplied with four unique module options.

- Links STEM concepts using agarose gel electrophoresis
- Dyes can be separated in agarose gels and students will use core STEM tools to determine band size
- Utilize critical thinking and reasoning skills
- For 10 Lab Groups
- Complete in 45 minutes
- Level: Beginner



### REQUIRES:

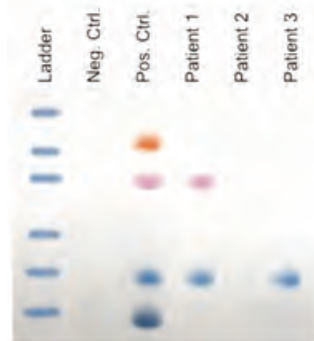
Electrophoresis apparatus, power supply, microwave or hot plate.

Cat. No.	Description	Price
S29009	Linking STEM to Agarose Gel Electrophoresis	57.00/Ea

## Edvotek™ AIDS Kit III: Simulation of HIV Detection by Protein Electrophoresis Experiment Kit

In this experiment, students will use SDS-PAGE to simulate the identification of HIV proteins in simulated patient samples. Edvotek™ AIDS Kit III: Simulation of HIV Detection by Protein Electrophoresis Experiment Kit test results are used to diagnose an HIV infection.

- For 6 Lab Groups
- Electrophoresis (60 min) Staining/Destaining (Optional, 2 hrs)
- Level: Intermediate



Cat. No.	Description	Price
S29013	AIDS Kit III: Simulation of HIV Detection by Protein Electrophoresis Experiment Kit	82.00/Ea

## Edvotek™ In Search of the Cholesterol Gene

Learn about the functions and movement of cholesterol within the body as well as how to test for genetic causes of high levels.

### Instructor's Guide provides:

- General information
- Gel and pre-lab preparations
- Group requirements
- Answers to study questions
- MSDS

**Does not contain human DNA or human serum.**

### ORDERING INFORMATION:

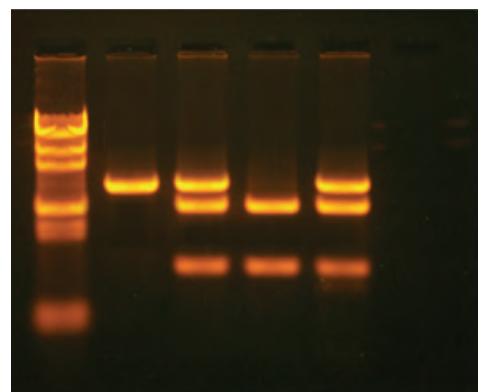
Class size: 10 lab groups

### INCLUDES:

All necessary biological material and study materials

### REQUIRES:

- Horizontal gel electrophoresis apparatus
- Hotplate, micropipets, balance, waterbath, and spectrophotometer
- 250mL Flasks
- UV transilluminator
- All necessary safety equipment
- Distilled or deionized water



Cat. No.	Description	Price
S66830	In Search Cholesterol Gene	222.00/Ea

## Edvotek™ DNA-Based Screening for Smallpox as a BioDefense Strategy

**Step one: Identify the virus.**

In 1980, the World Health Organization declared smallpox to be officially eradicated, even though limited amounts of the virus were stored by the US and USSR. But concerns remain over the virus' use in biowarfare. This experiment will help students understand how DNA fingerprinting can detect a virus such as smallpox.

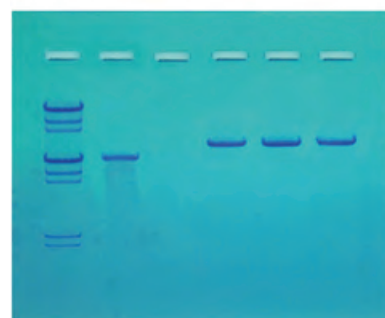
- Does not contain smallpox.

### ORDERING INFORMATION:

Class size: six groups

### INCLUDES:

- Ready-to-Load™ predigested DNA samples
- UltraSpec-Agarose™ powder
- Gel loading solution
- Electrophoresis buffer
- 1mL Pipet, graduated cylinder, microtipped transfer pipets
- InstaStain™ methylene blue
- Complete instructions, background information and study questions



### REQUIRES:

- Horizontal gel electrophoresis apparatus
- Hotplate, micropipets, balance
- Waterbath, white light visualization system
- 250mL flasks, pipet pumps or bulbs
- Large weigh boats for destaining
- All necessary safety equipment
- Distilled or deionized water

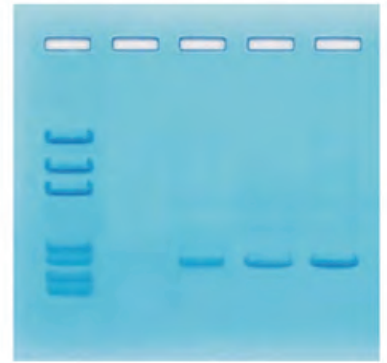
Cat. No.	Description	Price
S67190	Biodefensescreen For Smallpox	131.00/Ea



## Edvotek™ Amplification of DNA by PCR

Easy PCR experiment, students will make billions of copies of a small amount of DNA.

- Mix template DNA and primers with PCR beads
- PCR beads contain all of the other components required to carry out a PCR reaction
- Students will see the increasing amounts of DNA for themselves, taking samples every few cycles and analyzing them on a DNA gel
- For 10 lab groups
- PCR 3 hours or overnight, Electrophoresis 45 min.



Cat. No.	Description	Price
S11330	DNA Amplification	211.00/Ea

## Edvotek™ Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit

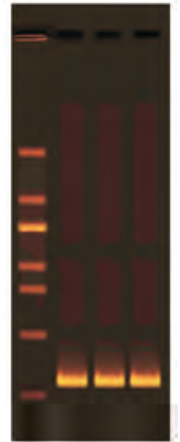
To identify the presence of the single nucleotide polymorphism (SNP) in an amplified segment of the PTC gene that links detection of the characteristic taste of PTC paper. Edvotek™ Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit includes 5 modules.

Five Modules Includes:

- Extraction of DNA from buccal cells
- Amplifying the segment that contains the polymorphic nucleotide
- Digestion of the amplified fragment with the restriction enzyme that recognizes the SNP
- Analysis by gel electrophoresis
- Tasting the PTC paper to confirm the results obtained
- For 25 reactions
- Complete in 3 hrs. 30 min.
- Level: Advanced
- Requires wet ice shipment for next day delivery

### REQUIRES:

Thermal cycler, electrophoresis apparatus, power supply, automatic micropipet, microwave or hot plate, waterbath, UV transilluminator.

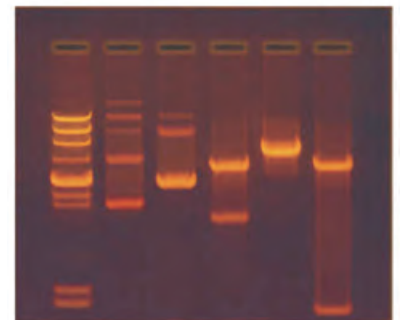


Cat. No.	Description	Price
S29018	Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit	227.00/Ea

## Edvotek™ Construction and Cloning of DNA Recombinant

To study gene structure, function, and to enhance gene expression.

- It is divided into five modules
- Clones are constructed by ligation of a vector and a fragment insert
- The constructs are then transformed into competent cells and the cells are grown and selected for resistance
- Plasmid DNA is then isolated from the transformants, cleaved with restriction enzymes, and analyzed by agarose gel electrophoresis
- Recommended for college level courses
- This experiment requires wet ice shipment for next day delivery (by 3:00 pm in most areas)
- For 5 lab groups
- Time: Enzyme digestion 30 min., Gel preparation 30 min., Electrophoresis 45 min., Staining 15 min. and Destaining 20 min.



Unit comprises: Electrophoresis tank and power supply, automatic micropipet with tips, balance, microwave or hot plate, waterbath, large weigh boats for staining, UV transilluminator, floating racks for microtest tubes, pipet pump or bulb, 5 or 10mL pipets, laboratory glassware, metric rulers, distilled water and ice

### INCLUDES:

Instructions, enzymes, plasmid DNA, restriction enzyme dilution buffer, enzyme grade water, standard DNA fragments, restriction enzyme reaction buffer, gel loading solution, agarose powder, electrophoresis buffer, stains and calibrated pipet

Cat. No.	Description	Price
S11301ND	For College Level Courses	497.00/Ea

## Edvotek™ Principles of PCR

Uses gel electrophoresis to gain an understanding of the Polymerase Chain Reaction (PCR) process and its applications.

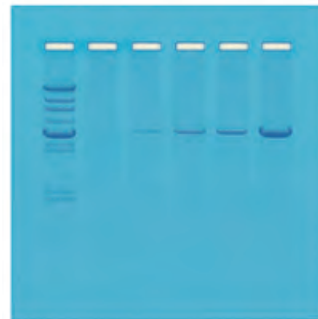
- Simulation experiment does not require a thermal cycler
- Does not contain human DNA

### ORDERING INFORMATION:

For eight gels.

### REQUIRES:

Horizontal electrophoresis apparatus; Staining tray; Water bath (65°C); Visualization system (white light); Micropipets; 250mL beakers; Hot hand protector; Deionized water; Microwave or hotplate; Balance; Photodocumentation system (optional)



Cat. No.	Description	Price
S11103ND	PCR- Polymerase Chain Reaction	123.00/Ea

## Edvotek™ Purification of the Restriction Enzyme Eco RI

In this Edvotek experiment, students actually purify the restriction enzyme, Eco RI.

In this experiment, students actually purify the restriction enzyme, Eco RI. This procedure utilizes an ion exchange chromatography step for Eco RI purification.

- Column fractions are assayed for the enzyme using Lambda DNA and digestion products are identified by agarose gel electrophoresis
- Fractions that contain Eco RI are identified and pooled
- Total and specific activities are calculated
- Recommended for college level courses
- For five purifications

### Experiment times:

- Packing column, 45 minutes
- Restriction analysis A, 35 minutes
- Restriction analysis B, 50 minutes
- Gel Prep, 30 minutes
- Electrophoresis, 30 minutes
- Staining and destaining, two minutes

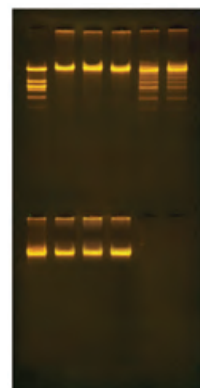
### REQUIRES:

- Chromatography columns
- *E. coli* cell extract
- Equilibration and elution buffer
- Lambda DNA
- Lambda/Eco RI Marker
- KCl
- Glycerol
- Dilution and reaction buffers
- Gel loading solution
- Agarose
- Electrophoresis buffer
- Stain
- Horizontal gel electrophoresis apparatus and power supply
- UV visualization system
- Waterbath
- Microcentrifuge
- Microwave or hotplate
- UV spectrophotometer and cuvetts
- Automatic micropipet with tips

### INCLUDES:

- Instructions
- Ion exchange matrix

- Ring stands and clamps
- 10mL pipets
- Lab glassware
- Ice and ice buckets

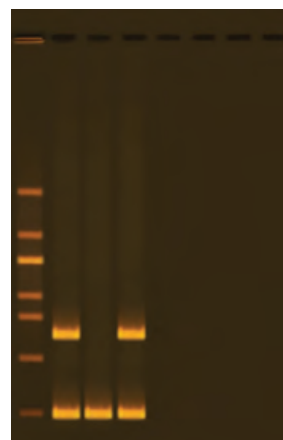


Cat. No.	Description	Price
S05656	Purification of the Restriction Enzyme Eco RI	254.00/Ea

## Edvotek™ GFP Transformation Extension: Colony PCR Experiment Kit

Determines whether cloning, transformation experiments were successful.

- Colony PCR to analyze bacteria transformed with pFluoroGreen
- Single colony used as DNA template for PCR
- Resulting PCR sample analyzed using agarose gel electrophoresis
- Used in conjunction Edvotek Transformation Kits (Part No: 222, 223 or 303)



**NEW!**

Cat. No.	Description	Price
S42874	GFP Transformation Extension: Colony PCR Experiment Kit	196.00/Ea

## Edvotek™ Southern Blot Analysis For DNA Fingerprinting

Advanced-level experiment for DNA fingerprinting. Demonstrates the use of Southern blot as a tool for DNA fingerprinting in a hypothetical paternity determination.

- Human DNA is not used.

### REQUIRES:

- Horizontal gel electrophoresis apparatus
- DC power supply
- Waterbath (65°C)
- Visualization system (white light)
- Staining tray and net
- NaCl, NaOH, concentrated HCl
- 250mL beakers or flasks
- 10mL glass graduated cylinder
- 100mL graduated cylinder
- Distilled or deionized water



- Microwave, hot plate, or Bunsen burner
- Small plastic box or tray forceps

Cat. No.	Description	Price
S11207	Southern Blotting Kit	157.00/Ea

## Edvotek™ Human PCR Tool Box

Carry out three Polymerase Chain Reactions (PCR) experiments in your class at once.

Provides three sets of primers to carry out PCR amplification of:

- Alu element (PV92) on Chromosome 16
- VNTR locus (D1S80) on Chromosome 1
- Two regions of the mitochondrial gene

### Experiment Times

- Setup: 30 minutes
- PCR: two hours or overnight
- Electrophoresis: 45 minutes

### ORDERING INFORMATION:

For six lab groups (six runs of each PCR reaction).

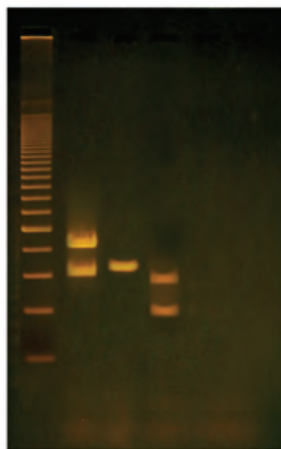
### INCLUDES:

Instructions; Proteinase K; PCR beads; Control and primer DNA; Microtubes; TE buffer; Agarose; DNA ladder; Practice gel-loading solution; Gel-loading dye; Electrophoresis buffer; InstaStain™ Ethidium Bromide; FlashBlue™ stain

### REQUIRES:

Micropipets to measure between 5 and 50µL; Tips; Water bath; Thermal cycler; Electrophoresis apparatus; Power supply; Microwave or hotplate; UV transilluminator

Cat. No.	Description	Price
S05660	Human PCR Tool Box	243.00/Ea



## Edvotek™ Reagents for Electrophoresis

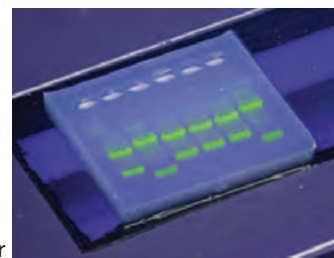
Cat. No.	Description	Price
S11601	Melt and Pour 0.8% UltraSpec-Agarose; 400mL	40.00/Ea
S11601B	Melt and Pour 0.8% UltraSpec-Agarose; 5 × 400mL	128.00/Ea
S11605	UltraSpec-Agarose; DNA Electrophoresis Grade, 20g	54.50/Ea
S11605B	UltraSpec-Agarose; DNA Electrophoresis Grade, 100g	201.00/Ea
S11607	Electrophoresis Buffer, 50X TAE (tris-acetate-EDTA), For 50L	42.75/Ea
S11609	FlashBlue™ Plus DNA Staining System; For 3L	46.00/Ea



## Edvotek™ SYBR™ Safe DNA Stain

Improved staining efficiency without altering the DNA. Used for post-electrophoresis DNA staining.

- Displays no acute oral toxicity and greatly reduced genotoxicity
- High sensitivity
- Duration of staining: 10-15 min.
- To visualize DNA expose gel to short/mid-range UV or Blue-Light Transilluminator
- Non-mutagenic
- More sensitive than ethidium bromide
- Reduces waste storage and disposal costs
- Offers non-hazardous waste status and Clean Water Act compliance
- Simple dilution: 1:10,000 (Add 5µL to 50mL of molten agar)



Cat. No.	Description	Price
S05678	SYBR Safe DNA Stain	224.00/Ea

## Edvotek™ InstaStain™ Ethidium Bromide

Rapid and sensitive.

- Contains only a few micrograms of ethidium bromide
- Gel is ready for visualization in two minutes
- Much less ethidium bromide waste for disposal compared to standard staining procedure



Cat. No.	Description	Price
S05698	7 × 7cm	73.50/Ea
S05699	7 × 7cm	125.00/Ea



## Edvotek™ InstaStain™ Blue

Environmentally friendly, avoiding large amounts of liquid stain and waste disposal.

- Sheets stain gels in minutes
- High-quality, uniform gel stain with excellent results for photography
- Blue



Cat. No.	Description	Price
S05700	Sufficient for 40 Gels	74.75/Ea
S05701	Sufficient for 100 Gels	124.00/Ea

## Edvotek™ Protein Electrophoresis Reagents: Buffers

Buffers for use in the science classroom.

- For protein gel electrophoresis



Cat. No.	Description	Price
S94635	Tris-Glycine-SDS Buffer, 500mL	29.50/Ea

## Edvotek™ Protein InstaStain™ sheets

Stain gels faster than conventional methods avoiding large amounts of liquid stain and waste disposal.

- Made of environmentally safe solid matrix
- Gives high quality and uniform gel staining
- Excellent results for photography



### ORDERING INFORMATION:

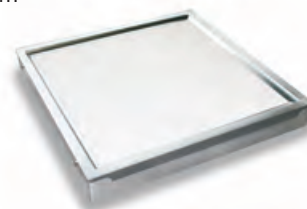
Dimension: 10 x 10cm

Cat. No.	Description	Price
S94633	Sufficient for 15 Gels	61.25/Ea

## Edvotek™ White Light Box

Safely enhance the visualization of DNA stained with FlashBlue™, proteins stained with Coomassie Blue and autoradiograms with the Edvotek White Light Box.

- Features a spacious 25 x 25cm (9.94 x 9.84 in.) viewing area
- Illuminated by long life LEDs
- Housed in a slim aluminum body
- Does not include an amber gel viewing filter



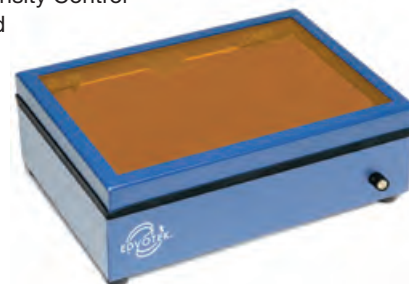
Cat. No.	Description	Price
S11552	White Light Box	199.00/Ea

## Edvotek™ TruBlu™ Blue Light Transilluminator



For viewing DNA gels stained with SYBR™ Safe eliminating the need for UV light or ethidium bromide. Edvotek TruBlu Blue Light Transilluminator is optimized to fit Edvotek Gels and the high intensity control and orange lid ensure superior visualization.

- Developed in concert with the inventor of the technology under license from Clare Chemical Research, Inc
- Viewing Area: 7 x 14cm
- Optimized for Edvotek Gels
- Blue Light High Intensity Control
- Orange Contrast Lid
- Vivid results
- US Patent Nos. 6,198,107, 6,512,236, 6,914,250
- EP Patent No. 0 965 034
- Made in USA

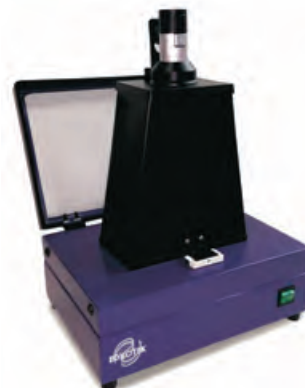


Cat. No.	Description	Price
S42878	TruBlu Blue Light Transilluminator	362.00/Ea

## Edvotek™ UV Digital Photodocumentation System

Allows students and instructors to photographically document DNA stained with ethidium bromide. Edvotek™ UV Digital Photodocumentation System includes both midrange UV transilluminator and photodocumentation system.

- Hood accommodates gels up to 9.5 x 11cm
- Photos may be downloaded to compute
- Midrange UV transilluminator is designed to visualize DNA stained with Ethidium Bromide, SYBR™ Safe, and other fluorescent stains



Cat. No.	Description	Price
S29008	UV Digital Photodocumentation System	1020.00/Ea

## Edvotek™ Midrange UV Transilluminator

Midrange (302nm) UV transilluminator designed to visualize DNA stained with ethidium bromide.

- UV filter 7 × 14cm (2.75 × 5.5 in.) in size
- Optimal for viewing almost every Edvotek experiment kit utilizing ethidium bromide (Edvotek standard gel size is 7 × 7cm [2.8 × 2.8 in.])
- Safety features include a UV-blocking cover and a power cut-off switch when cover is opened
- Also ideal for viewing gels stained with SYBR™ Safe



**WARRANTY:** Two years

Cat. No.	Description	Price
S97812	UV Transilluminator; Midrange (302nm)	827.00/Ea

## Edvotek™ EdvoFoto™ Digital GelCam

Provide low cost alternative for gel photos. Edvotek™ EdvoFoto™ Digital GelCam has integrated an easy-to-use digital camera and specially designed hood.

- Accommodate gels up to 7 x 14cm
- Photos may be downloaded to a computer



Cat. No.	Description	Price
S29007	Digital GelCam	673.00/Ea

## Edvotek™ Long Wave UV Mini-Lights

Used to detect hydrolysis of fluorescent substrate.

- Hand-held
- Also detects fluorescent *Artemia* and *Daphnia* after their ingestion
- Can also be used for observing fluorescence in Green (gfp) and Blue (bfp) fluorescent proteins



Cat. No.	Description	Price
S95133	UV Mini-Light	64.00/Ea

## Shortwave/Longwave UV Lamp

Illuminates gels stained with ethidium bromide.

- Combination UV lamp includes one 4w longwave tube and one 4w shortwave tube
- Specular reflector ensures maximum UV illumination
- Dimensions: 8.5L × 2.5W × 2 in.H (21.6 × 6.4 × 5.1cm)
- Weight: 1.5 lb. (0.68kg)

**⚠ ALERTS:**  
Always wear UV protective goggles.



Cat. No.	Description	Price
S45157	Shortwave/Longwave UV Lamp	464.00/Ea

## Power Supply

Light, compact and stackable design saves valuable bench space.



Use with vertical or horizontal electrophoresis, electroblotting and more.

- Output is controlled either by time (timer included), constant current or constant voltage
- Four sets of output terminals allow four apparatus to be connected simultaneously

### S05797 Mini Power Supply

- For horizontal and vertical gel electrophoresis
- Output: 10 to 300V in 1V steps
- Current: 4 to 500mA in 1mA steps
- 90w maximum in 1w steps

### S05796 High-Current Power Supply

- For Western, Southern and Northern blots and vertical gel electrophoresis applications
- Output: 5 to 200V
- Current: 2000mA
- 200w maximum

**ORDERING INFORMATION:**  
110V/50 to 60Hz. Weight:  
4.2 lb. (1.9kg).

**CERTIFICATIONS:**  
CE marked.

Cat. No.	Description	Price
S05797	10 to 300V Mini Power Supply	513.00/Ea

## Edvotek™ DuoSource™ 150 Power Supply

Edvotek's DuoSource 150 power supply is designed to power any combination of horizontal or vertical electrophoresis units.

- Safety features included a fused UL-approved, three-pronged power plug and non-conductive casing
- Equipped with an easy-to-replace 1 Amp slow burn fuse
- Delivers direct current, constant voltage at settings of 75 and 150V
- Maximum current is 300mA



Cat. No.	Description	Price
S11509E	DuoSource 150 Power Supply	245.00/Ea

## Edvotek™ TetraSource™ Power Supply

Power a combination of electrophoresis units with this 650mA power supply.

Run experiments in the least time possible with this powerful, versatile unit.

- Easy-to-use, fully programmable interface for setting voltage, current or timer control with each parameter displayed in real time
- Programs may be paused or resumed at any point



### ORDERING INFORMATION:

10 to 300V for one to four units; maximum: 750mA.

Cat. No.	Description	Price
S05704	TetraSource Power Supply	501.00/Ea

## Edvotek™ HexaGel™ Electrophoresis E-Z Align Trays

Feature gel casting trays



E-Z Align™ casting trays or gel beds have rubber end caps that fit tightly to tray and eliminate the problem of leaking agarose solution

**INCLUDES:** Three gel casting trays

Cat. No.	Dimensions (L x W)	Price
S05686	3.9 x 2.7 in. (10 x 7cm)	206.00/Ea
S94650	2.7 x 2.7 in. (7 x 7cm)	51.00/Ea

## Edvotek™ HexaGel™ Electrophoresis Sixth-Tooth Comb

Well-former comb.



Polycarbonate comb casting six wells accommodates up to 38 to 40µL of sample

**INCLUDES:** Six-tooth well-former comb

Cat. No.	Description	Price
S94649	Six-Tooth Comb	36.25/Ea

## Edvotek™ Edvotek™ MV10 Protein Electrophoresis Apparatus

Seamless vertical electrophoresis unit is designed for separation of proteins on a single polyacrylamide gel.

Re-designed MV10 vertical protein electrophoresis unit capable of holding one vertical polyacrylamide gel, the unit has color coded parts to ensure proper orientation.

- Gel support cassette clip - holds gel securely, allows for easy placement and removal of gel
- New, sleek design
- Domed lid with sturdy overmold grip feature
- Modified shapes improves gel running speed by 10-15%
- Stabilizing feet - raises unit off bench to promote cooling and improves stabilization
- Placement of color-coded anode/cathode sides completely eliminates the chance of improper or reverse lid placement
- Electrode lead 90° right angle shape improves stability by lowering the overall profile and thus minimizes tipping
- Patent pending

### INCLUDES:

- Seamless injection-molded base
- Safety interlock cover
- Corrosion-resistant, all-platinum electrodes with safety-insulated leads

### WARRANTY:

Manufacturer's limited lifetime warranty and free technical support.



Cat. No.	Description	Price
S90257ND	MV10 Protein Electrophoresis Apparatus	315.00/Ea



## Edvotek™ Rubber End Caps

Accessory for use with Electrophoresis apparatus. Rubber End Caps includes two rubber end caps for use with Edvotek gel trays.

- Accessory for use with Electrophoresis apparatus
- Includes two rubber end caps for use with Edvotek gel trays



Cat. No.	Description	Price
S29019	Rubber End Caps	19.75/Ea

## Edvotek™ Electrophoresis Double Comb

For both 8-well (30 $\mu$ L) and 10-well (20 $\mu$ L) volumes.

Injection-molded 8- and 10-well comb provides precise, uniform wells with two volumes. Made of impact-resistant polycarbonate. Fits DNA Fingerprinting (S94610), Southern Blot Analysis for DNA Fingerprinting (S11207), and HexaGel™ Electrophoresis Apparatus (S11515A).



Cat. No.	Description	Price
S94611	Electrophoresis Double Comb	39.00/Ea

## Edvotek™ M12 Dual Electrophoresis Apparatus



Choose either two 7 x 7cm gel trays (dual model) or one 7 x 14cm gel tray (single model).

- New, sleek design
- Contoured lid enhances visualization
- Vented base
- Color coded push tabs
- Pour spout for disposing of used buffer
- Replaceable electrode modules
- Results in 30-40 minutes
- Patent pending

Cat. No.	Description	Price
S90242ND	M12 Dual Electrophoresis Apparatus	287.00/Ea

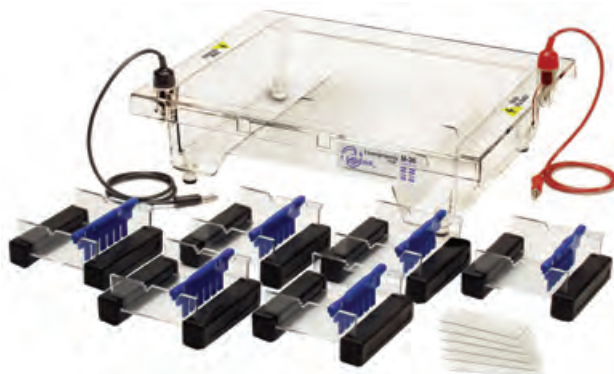
## Edvotek™ Edvotek™ M36 HexaGel Electrophoresis Apparatus

Apparatus allows you to run six gels and separate up to 36 samples simultaneously.

Six groups of students can load their own individual gels and six gels are run together for 30-40 minutes giving results. Eliminate cumbersome gel tray taping and pour gels quickly and easily with our innovative gel tray sealing rubber end caps.

- New, sleek design
- Contoured lid enhances visualization
- Vented base
- Color coded push tabs
- Pour spout to pour out used buffer
- Replaceable electrode modules

Cat. No.	Description	Price
S11515A	M36 HexaGel Electrophoresis Apparatus	426.00/Ea



## fisherbrand Large Gel Electrophoresis System

Provide leak-free casting in a 20 x 25cm gel tray with six comb positions.



Improve resolution in Northern and Southern blotting of large gels and multiple samples.

- Available with same self-contained buffer recirculation method as Midigel System (S98617)
- Run up to 36 samples per comb position with supplied combs
- Permit up to four sets of samples to be run equal distances on the same gel
- Allow shorter gels to be poured when used with accessory wall comb
- Buffer volume: 2.3L
- May also be used with programmable power inverter for field inversion electrophoresis
- Gel size: 20 x 25cm
- 2.3L buffer volume
- Dimension: 37.5 x 28 x 10cm

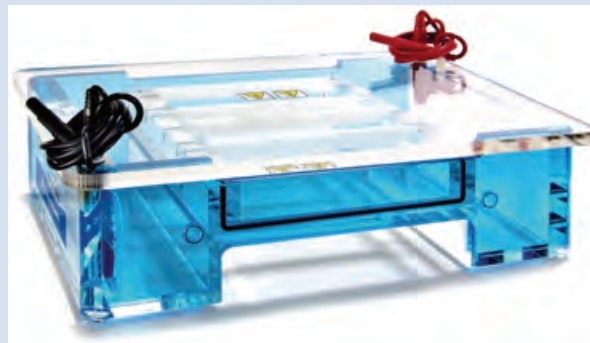
### INCLUDES:

Three-point leveling platform, buffer chamber, safety lid with attached power supply leads, UV-transparent gel tray, nonskid rubber feet and three 1.5mm combs (16-, 24-, 36-well)

Cat. No.	Description	Price
S98616	Large Gel Electrophoresis System	968.00/Ea

## fisherbrand Midigel Electrophoresis System

Provide leak-free gel casting in 13 x 16cm gel tray with two comb positions.



Run up to 32 samples on one gel with combs supplied.

- Available with buffer recirculation method that prevents ionic depletion on long gel runs, keeps ionic gradients from distorting results when multiple sample series are run simultaneously and prevents pH changes that can cause problems in RNA gels
- Buffer volume: 800mL
- Can run up to 48 samples on a gel with accessory combs
- Type: Standard
- L x W x H: 9.625 x 7 x 3.125 in. (24.5 x 18 x 8cm)

### INCLUDES:

Buffer chamber, safety lid with attached power supply leads, UV-transparent gel tray, nonskid rubber feet and two 1.5mm thick combs (12- and 20-well)

Cat. No.	Description	Price
S98617	Midigel Electrophoresis System	639.00/Ea

## fisherbrand FB300 Power Supply

- Versatile, compact FB300 runs up to three gels at once at either constant current or constant voltage
- Stackable, solid, compact power source
- Integral timer and auto shutoff prevents fear of losing valuable information
- No-slip feet anchor provides safe operation
- Ideal for mini SDS-PAGE, DGGE/CDGE and DNA/RNA submarine electrophoresis
- Maximum voltage: 300V
- Maximum current: 400mA
- Maximum power: 75w
- Three jacks
- Internal timer: 0 to 999 minutes



Cat. No.	Description	Price
S65533Q	FB300 Power Supply	727.00/Ea

## Thermo Scientific™ Owl™ Separation B1A EasyCast™ Mini Gel Electrophoresis System

Designed to provide flat, even banding patterns and consistent results with less hassle.

The perfect size to determine molecular weight ranges of PCR fragments or larger-sized DNA molecules.

- Enables casting and running a gel in the buffer chamber
- Run 5 to 24 samples in 15 minutes
- The two comb slots on the UV Transmissible (UVT) gel tray double sample capacity by doubling the number of sample wells
- Heavy-duty, one-piece combs eliminate comb assembly
- UVT gel trays are silk screened with a fluorescent ruler for easy measurement of bands
- 8L x 7cmW (3.1 x 2.8 in.) gel size
- 16L x 10.5W x 9.5cmH (6.3 x 4.1 x 3.7 in.) footprint
- 400mL running buffer volume



Cat. No.	Description	Price
S98630	B1A EasyCast Mini Gel Electrophoresis System	525.00/Ea

## fisherbrand Minigel Electrophoresis Systems

Provides easy, leak-free casting without tape, grease or seals.

Ideal for quick screening.

- Use 7 x 10cm gel tray with two comb positions
- Run up to 16 samples on one gel with combs supplied
- Can run up to 24 samples on a gel with accessory combs
- Buffer volume: 400mL



### INCLUDES:

Buffer chamber, safety lid with attached power supply leads, UV-transparent gel tray, nonskid rubber feet, three-point leveling system and two 1.5mm thick combs (six- and 10-well)

Cat. No.	Description	Price
S98615	Minigel Electrophoresis System	522.00/Ea

## Dual Cool Mini-Vertical PAGE/ Blotting System

DCX-700 with Gel Wrap™ Handcasting Bundle DCX-HC.

- Uniquely designed, multipurpose, easy-to-use Dual Cool System can accommodate both slab gel electrophoresis and Western blotting within the same unit without the purchase of additional modules
- The Dual Cool System provides the capability of running 2 gels or 2 blots simultaneously under identical temperature controlled buffer conditions
- DCX-700 Dual Cool Electrophoresis System includes lower reservoir, core, 2 blotting cassettes, 2 freezer blocks, safety cover with attached leads, single gel adapter plate
- Handcasting components include two sets of Gel Wrap glass plates, 2 sets of Gel Wrap spacers (choice of 0.75mm, 1.0mm, or 1.5mm thicknesses), 2 combs (choice of 0.75mm, 1.0mm or 1.5mm thickness with 10 or 14 wells), 2 Gel Wrap gaskets for sealing glass plate sandwich (choice of 0.75mm, 1.0mm and 1.5mm) and 6 casting clamps



### DCX-700

- Molded system is designed primarily for use with a variety of precast gels ranging in size from 10cm x 10cm to 10cm x 9cm
- Alternatively, hand-cast gels can be run with the use of accessory combs, plates, and spacers
- Hinged core design allows easy loading and removal of gel or blotting cassettes
- Freezer blocks fit into receptacles inside of unit for optional cooling
- Electrophoretic transfers do not require the purchase of separate transfer modules
- Color-coded anode and cathode safety features on all components
- Clear tank allows for monitoring of sample progress
- Platinum electrodes

SDS-PAGE, Electroblotting (Western), Acrylamide nucleic acid separations

**CERTIFICATIONS:** CE marked

### Specifications

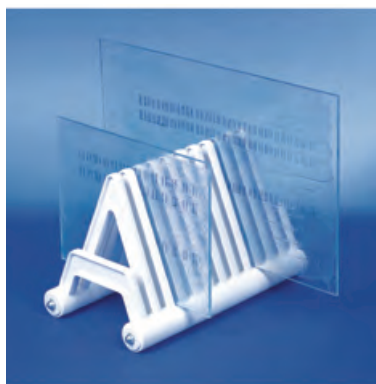
Ambient Temperature (English)	140°F
Ambient Temperature (Metric)	60°C
Amperage	190mA
Certifications/Compliance	EN61010-1-1993 (IEC1010-1), CE
Dimensions (L x W x H) Exterior	5.98 x 6.49 x 8.5 in. (15.2 x 16.5 x 21.6cm)
Length (English) Gel	3.93, 3.54, 3.14 in.
Volume (English) Buffer	13.52 to 27.38 oz.
Width (English) Gel	3.93 in.
Voltage	300V
Wattage	30w

Cat. No.	Description	Price
S05755	Dual Cool Mini-Vertical PAGE/Blotting System	625.00/Ea



## Electrophoresis Gel Plate Rack

Separates glass plates to reduce chipping and cracking.



Gel plate rack has 10 places for holding glass plates and a weighted base for safety.

- Wide handles provide a secure grip while transporting the rack
- Smooth polypropylene material cushions glass edges to reduce chipping and cracking
- Flat area on each end is designed for labeling racks as used, unused, treated or untreated
- White polypropylene with steel fittings
- Dimensions: 8 x 15 x 9 in. (20.3 x 38.1 x 22.9cm)

Cat. No.	Description	Price
S90151	Gel Plate Rack	106.00/Ea

## Gel Staining Boxes

Electrophoresis gels and membranes can be easily stained, fixed, destained and handled.



Choose clear polymethylpentene box for easier viewing or economical polypropylene box.

- Drain (with LDPE plug) positioned lower than the floor of the box minimizes disturbance of gel during liquid drainage
- Unaffected by temperatures from -94° to +158°F (-70° to +70°C)
- Resistant to acids, alkalis and many solvents
- Inside dimensions: 5L x 5W x 2 in.D (12.7 x 12.7 x 5.1cm)
- Capacity: 25.3 oz., 750mL
- Clear

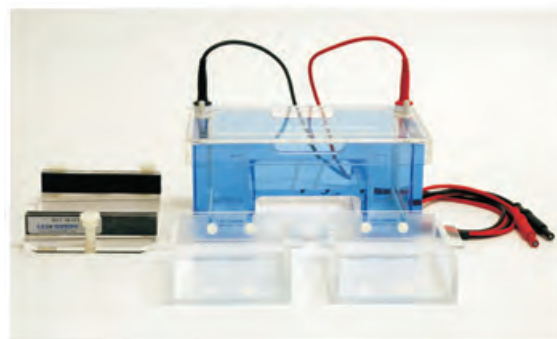
Cat. No.	Description	Price
S90147	Polymethylpentene	31.00/Ea
S90148	Polypropylene	24.00/Ea

## Horizontal Midi-Gel Productivity Packages

Allows casting second gel while the first is running for increased efficiency.

Midi Horizontal Productivity Packages feature platinum electrode cassettes which provide rapid sample velocity and clear focused bands without smearing.

- Platinum electrode cassettes can be easily removed for cleaning or replacement
- High quality, heavy duty construction with vast array of accessory options
- Winged gel trays for easy handling. No more sticking fingers into slippery buffer to extract gel tray
- Addition of external gel caster and additional gel tray allows researcher to use time more efficiently
- MHU-602 Midi-Horizontal runs up to a full microtitre plate (108 samples) per gel
- Tapered baffles allow easy in situ gel formation with or without gel tray
- Run up to 32 samples per gel. Two slots in each gel tray
- Combs are printed with catalog number and thickness for easy identification
- Choice of double-sided adjustable height combs gives researcher more options
- Optional PTFE-coated aluminum combs for low-friction comb removal and accelerated well formation



- Horizontal Midi-Gels are available in four vivid colors; green, yellow, blue or fluorescent pink
- Color-coded horizontal systems are recommended to differentiate exclusive use by specific lab or for specific purpose
- Certifications/Compliance: CE
- 3-year warranty

**Applications:** Separation and identification of DNA fragments, RNA fragments, PCR Products and synthetic oligonucleotides

Cat. No.	Description	Volume (Metric) Buffer	Gel Dimensions	Dimensions (L x W x H) Exterior	Price
S22883	Compatible Gel Tray: WGT-400	550mL	L x W: 11 x 10.5cm (4.3 x 4.1 in.)	22.5 x 13 x 14cm (8.8 x 5.1 x 5.5 in.)	486.00/Ea

## Flexicast Horizontal Midi-Gel System

One Unit, multiple gel tray lengths and adjustable gel caster.

CBS Economy Horizontal Productivity Packages feature platinum electrode cassettes which provide rapid sample velocity and clear focused bands without smearing.

### Gel Tray Specifications:

- Buffer volume 750mL
- Winged gel trays for easy handling - no more sticking fingers into slippery buffer to extract gel tray
- Made from sturdy 6.4mm thick UV transparent acrylic
- Grooves in gel tray corners create agarose anchors to prevent gel flotation during electrophoresis
- Gel tray configuration allows single run or multiple simultaneous short runs
- Save on agarose expense by selecting appropriate length gel tray for application desired
- Continuously Adjustable Caster is easy to use and adaptable to any gel tray between  $\leq 16\text{cm}(w)$  and from 8-20cm(l)
- Gel tray friction fits between 2 rubber gaskets using a finger cam
- Combs are printed with catalog number and thickness for easy identification
- Adjustable height polycarbonate (standard with unit) or PTFE-coated aluminum combs are available in many configurations, with or without markers



- PTFE-coated combs allow faster well formation as no wells are lost when using low percentage or low melt agarose
- Buffer recirculation ports allow maintenance of uniform pH and ionic strength during long runs in WHSE-014
- Coolant can be recirculated beneath gel bed to provide constant temperature runs in the "4-in-1" WHSE-014
- Certifications/Compliance: CE
- 3-year warranty
- Gel dimensions: 6.2L x 5.5W in. (16 x 14cm)
- Exterior dimensions: 10.8L x 6.5W x 5.5H in. (27.5 x 16.7 x 14cm)

Cat. No.	Description	Price
S22909	Flexicast Horizontal Midi-Gel System	648.00/Ea

## Edvotek™ Edvotek™ Classroom PCR LabStation™

Supports up to 25 students.



- Supports up to 25 students

### INCLUDES:

Six M12 electrophoresis apparatus (7 x 14cm tray), three Edvotek DuoSource™ 150 dual power sources (75/150V, for one or two units), six variable micropipets (5 to 50 $\mu$ L), two Piccolo microcentrifuges, one EdvoCycler™ (25 x 0.2mL)

Cat. No.	Description	Price
S05705	Classroom PCR LabStation	7143.00/Ea

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## Edvotek™ Comprehensive Biotechnology LabStation™

High-quality equipment for the entire class.



- Prepared slide for use with classroom science studies

### ORDERING INFORMATION:

Supports up to 48 students.

### INCLUDES:

Six M12 Electrophoresis Apparatuses; Three MV10 Protein Electrophoresis Apparatuses; Three TetraSource™ power supplies (30 to 300V for 1 to 4 units); One MegaCycler; One EVT-3000 Vortexer; Three Piccolo Microcentrifuges; One incubation oven; One 10L digital water bath; One personal digital photodocumentation system; One white light box; One midrange UV transilluminator; 10 longwave UV mini-lights; Six variable micropipets (0.5 to 10 $\mu$ l); Six variable micropipets (10  $\times$  100 $\mu$ l); Six variable micropipets (100 to 1000 $\mu$ l); Five ultra micropipet tips (0.1 to 10 $\mu$ l/2 racks of 96); 10 yellow micropipet tips (1 to 200 $\mu$ l /2 racks of 96); Five micropipet tips (200 to 1000 $\mu$ l/2 racks of 100); Five fine-tip micropipet tips (1 to 200 $\mu$ l/1 rack of 204)

Cat. No.	Description	Price
S05706	Comprehensive Biotech Labstation	13715.00/Ea



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## Liquid Handling

### Edvotek™ Micropipetting Basics

Pipetting is a critical skill necessary for the accuracy that is essential in scientific experiments.

- Demonstrate the use of micropipets
- Prepare various dye mixtures and deliver mixture to the pipet card™
- Practice new skills by loading samples onto an agarose gel

### INCLUDES:

Colored dye samples, pipet card, instructions and study questions



Cat. No.	Description	Price
S68632	Micropipet Basics	58.00/Ea

### Edvotek™ Micropipet Tips

Tips available in a variety of colors and types



- Includes: Ultra, Yellow, Blue, Fine tip and Jumbo micropipet tips

Cat. No.	Volume (Metric)	Format	Price
S06688	0.5 to 10 $\mu$ L	Bulk	60.50/Ea
S06689	1 to 200 $\mu$ L	----	20.75/Pk
S06690	1 to 200 $\mu$ L	Bulk	61.75/Ea
S06692	200 to 1000 $\mu$ L	Bulk	67.50/Ea
S06693	1000 to 5000 $\mu$ L	Bulk	33.75/Ea

### Edvotek™ Fixed Volume MiniPipets

Easy-to-use, precise operation and ergonomic design

- Utilize standard disposable micropipet tips
- Lifetime warranty
- Cost-effective



### WARRANTY:

Lifetime

Cat. No.	Description	Price
S90244A	10 $\mu$ L	29.00/Ea
S90244B	20 $\mu$ L	28.00/Ea
S90244E	35 $\mu$ L	22.00/Ea
S90244F	40 $\mu$ L	20.25/Ea
S90244G	50 $\mu$ L	22.00/Ea
S90244H	75 $\mu$ L	17.75/Ea
S90244J	100 $\mu$ L	22.00/Ea
S90244K	200 $\mu$ L	17.75/Ea



## Edvotek™ Variable Micropipets

Automatic tip ejector makes operation fast and convenient

- Ergonomically designed
- Digital display indicates the chosen volume
- Deliver precise and reproducible volumes with ease
- Utilize standard disposable micropipet tips
- No calibration servicing needed
- Backed by a lifetime warranty and technical support

### INCLUDES:

- Service wrench
- Instructions



Cat. No.	Volume (Metric)	Price
S90243A	0.1 to 2.5µL	228.00/Ea
S90243B	0.5 to 10µL	231.00/Ea
S90243C	2 to 20µL	231.00/Ea
S90243D	5 to 50µL	232.00/Ea
S90243E	10 to 100µL	228.00/Ea
S90243F	20 to 200µL	231.00/Ea
S90243H	100 to 1000µL	233.00/Ea
S90243K	1000 to 5000µL	228.00/Ea

## fisherbrand Standardization Pipet Tips

Eliminate the need to buy pipetter-specific tips.

- Pliable top opening allows better fit on different types of pipetters
- Lower costs by reducing the number of redundant products
- Natural color
- Bulk packed
- Sterile
- Universal fit



Cat. No.	Length (English)	Volume (Metric)	Price
S98754A	2 in.	0.1 to 200µL	53.60/Pk
S98754B	3.4 in.	200 to 1000µL	80.80/Pk

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## PCR Equipment and Incubation

**Edvotek™ What Is PCR and How Does It Work?**

Demonstrates the process of DNA amplification by PCR.

- Polymerase Chain Reaction (PCR) has played an important role in the advancement of molecular biology and the enhancement of DNA isolation, detection and amplification
- Simulation demonstrates the process of DNA amplification by PCR and how the amplified product is detected by separating the reaction mixture by agarose gel electrophoresis

**ORDERING INFORMATION:**

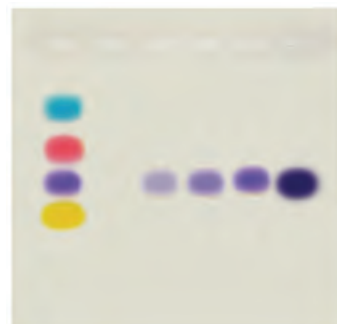
Class size: 10 groups.

**INCLUDES:**

- Dye samples
- Practice gel-loading solution
- UltraSpec-Agarose™ powder
- Concentrated electrophoresis buffer
- Transfer pipets
- Instructions and study questions

**REQUIRES:**

- Horizontal gel electrophoresis apparatus
- DC power supply
- Microwave, hotplate or burner



Cat. No.	Description	Price
S68633	What Is PCR	70.75/Ea

**Edvotek™ PCR-Based DNA Typing**

DNA typing adapted from FBI technology.

Safe experiment for classroom use to demonstrate DNA fingerprinting.

**Alu-Human DNA Typing (S66823)**

- Examine students' DNA for an Alu element on Chromosome 16
- Investigate DNA patterns
- Compare Alu genotypes with those of their classmates

**VNTR Human DNA Typing (S66824)**

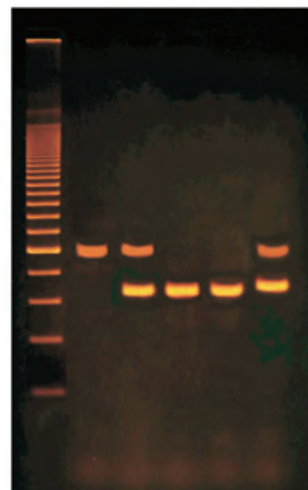
- Use PCR to fingerprint students' DNA at the D1S80 locus on Chromosome 1
- Provide an example of the variable number of tandem repeat (VNTR) polymorphism

**INCLUDES:**

Supplies for 25 individual reactions and six gels, complete instructions, background information and study questions

**REQUIRES:**

- Thermal cycler
- Horizontal gel electrophoresis apparatus
- Microcentrifuge
- Automatic micropipets
- UV transilluminator
- 500mL flasks
- Glassware
- All necessary safety equipment
- Ice
- Ice bucket
- Distilled or deionized water



Cat. No.	Description	Price
S66823	Alu-Human DNA Typing	261.00/Ea
S66824	VNTR Human DNA Typing	267.00/Ea

**Edvotek™ PCR Beads**

Provide the reagents for Polymerase Chain Reactions (PCR) in a convenient, ambient-temperature-stable bead.

- Beads for 25 reactions optimized for PCR; each bead contains *Taq* DNA polymerase, *Taq* DNA polymerase buffer, dNTP mixture and MgCl<sub>2</sub>
- The only reagents that must be added to the reaction are template DNA and specific primers

**INCLUDES:**

Beads for 25 reactions

Cat. No.	Description	Price
S96380	PCR Beads	65.25/Ea



## Edvotek™ Identification of Genetically Modified Foods Using PCR

Certain foodstuffs, such as tofu and soy milk, contain raw materials from genetically modified organisms (GMOs).

- The U.S. does not require food to be labeled to indicate that the product contains raw materials obtained from GMOs
- This Polymerase Chain Reaction-based experiment makes it possible to identify the presence of GMO soybeans in food
- Does not include UltraPure Water
- Includes FlashBlue™ Stain

### ORDERING INFORMATION:

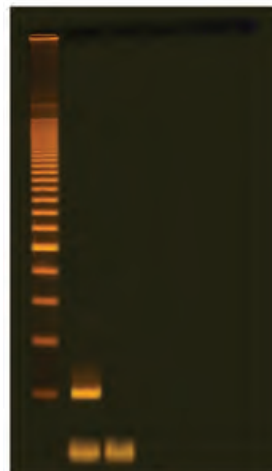
Class size: 10 groups.

### INCLUDES:

- DNA extraction reagents
- PCR beads (*Taq* polymerase, dNTPs, buffer, MgCl<sub>2</sub>)
- DNA size ladder
- Ultrapure water
- Wax beads
- 10X gel-loading solution
- UltraSpec-Agarose™ powder
- Electrophoresis buffer (50X)
- InstaStain™ Ethidium Bromide
- Instructions and study questions

### REQUIRES:

- Thermal cycler or three water baths
- Horizontal gel apparatus
- DC power supply
- Microcentrifuge
- Balance
- Microwave oven or hotplate
- UV transilluminator
- Pipetter



Cat. No.	Description	Price
S68638	PCR-based Identification of Genetically Modified Foods Kit	256.00/Ea

## Edvotek™ DNA Fingerprinting Using PCR

Advanced experiments demonstrate PCR amplifications with easy-to-follow procedures.

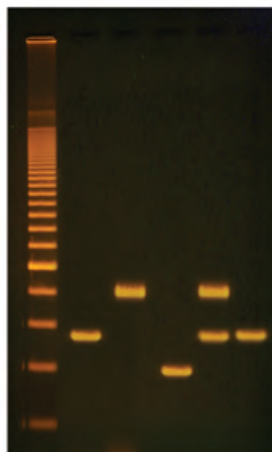
- Crime scene scenarios enable independent investigation of how Polymerase Chain Reaction (PCR) amplifications are used in DNA fingerprinting
- Set of plasmids contains specifically designed DNA fragments
- PCR amplification products obtained from the plasmids represent individual DNA profiles
- Contains three advanced PCR experiments, each for 10 gels

### ORDERING INFORMATION:

Class size: 20 to 30 students in groups of two or three.

### INCLUDES:

PCR beads: *Taq* polymerase, dNTPs, buffer and MgCl<sub>2</sub>; DNA templates and primers; DNA size ladder; Wax beads; 10X gel-loading solution; UltraSpec-Agarose™ powder; 50X electrophoresis buffer; InstaStain™ Ethidium Bromide; Instructions, background information and study questions



Cat. No.	Description	Price
S94592	PCR-based DNA Fingerprinting Experiment	242.00/Ea

## Edvotek™ Quick PCR

Lets students gain hands-on experience in the principles and practice of the Polymerase Chain Reaction (PCR).

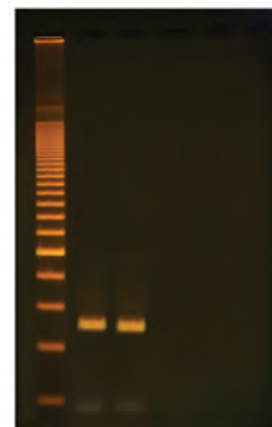
- Experiment uses a set of primers and lambda DNA template in a time-saving two-step process
- Allows lab to be completed in one session
- Does not contain human DNA.

### ORDERING INFORMATION:

Class size: 10 lab groups.

### INCLUDES:

Tubes with PCR reaction pellets; Primer mix (two primers); 200 base-pair ladder; Lambda DNA template for amplification; UltraSpec-Agarose™ powder; Electrophoresis buffer (50X); 10X gel-loading solution ; InstaStain™ Ethidium Bromide; InstaStain Methylene Blue; FlashBlue stain; TE buffer; Microcentrifuge tubes (0.5mL); PCR tubes (0.2mL); Wax beads; Instructions



Cat. No.	Description	Price
S96378	Quick PCR	227.00/Ea



## PCR Workstations – Dead Air Boxes

Protect against contamination in sensitive PCR amplification reactions.

Three sizes offer plenty of workspace for reaction supplies and thermal cycler.

- UV irradiation of working area prior to use blocks replication of contaminating DNA sequences by causing adjacent pyrimidines to undergo dimerization
- Protects against cross- or airborne contamination by limiting exposure of experimental setup to open lab environment
- Dual UV bulbs deliver twice the UV intensity compared to single bulbs, helping irradiate areas that might otherwise be inaccessible; useful when workstation is used to decontaminate apparatus and reagents
- Access doors close to prevent contamination, then slide into storage compartment in base during use
- Stainless-steel ceiling increases UV dose at workstation surface; results in a 10% increase in UV dose with single bulb and 20% with dual UV bulb
- Hinged-glass fascia allows easy access to interior workspace for cleaning and placement of large instruments
- Dual fluorescent lamps ensure excellent workspace visibility
- 254mm UV lamp with convenient switch for timed decontamination of workspace



**ORDERING INFORMATION:**  
110V.

**INCLUDES:**  
Acid-resistant Formica™ work surface, tempered safety-glass fascia, duplex electrical outlet mounted in ceiling, two fluorescent lamps mounted in stainless-steel ceiling, single or dual UV germicidal lamp with 12-hour countdown timer with time-hold position and single or double door closures

**CERTIFICATIONS:**  
CE-marked.

Cat. No.	Width (English) Exterior	Lighting	Doors	Price
S05781	30 in.	Two UV, Two Fluorescent Bulbs	Single closure	2854.00/Ea
S05782	36 in.	Single UV, Two Fluorescent Bulbs	Single closure	3234.00/Ea
S05783	36 in.	Two UV, Two Fluorescent Bulbs	Single closure	3234.00/Ea
S05784	48 in.	Single UV, Two Fluorescent Bulbs	Dual closure	4465.00/Ea
S05785	48 in.	Two UV, Two Fluorescent Bulbs	Dual closure	4281.00/Ea

## Edvotek™ EdvoCycler™

Affordable PCR for the classroom without compromise.

- 0.2mL tube block with room for up to 25 samples
- Heated oil-free lid with magnetic latch
- Vivid seven-line LCD displays all program parameters simultaneously without any scrolling
- Preprogrammed PCR protocols may be modified or deleted, plus there is additional memory for more
- Temperature range: 10° to 99°C (50° to 210°F)
- Maximum ramp rate: 3°C/sec.
- Block uniformity at 50°C, ±1°C



**ORDERING INFORMATION:**

L x W x H: 16 x 8.5 x 7 in. (40.6 x 21.6 x 17.8cm). Made in USA

**WARRANTY:** Two years

Cat. No.	Description	Price
S68640	EdvoCycler	1657.60/Ea

## Edvotek™ MegaCycler™ Thermal Cycler

Nearly twice the sample capacity as the EdvoCycler™.

**Holds 49 x 0.2mL PCR samples.**

- Stand-alone machine — no PC required
- Heated oil-free lid with magnetic latch
- Preprogrammed with Edvotek PCR protocols
- Vivid seven-line LCD display with live program information
- Temperature range: 4° to 99°C (39° to 210°F)
- Maximum ramp rate: 3°C/sec.



**ORDERING INFORMATION:**

L x W x H: 16 x 8.5 x 7 in. (40.6 x 21.6 x 17.8cm).

Cat. No.	Description	Price
S05665	MegaCycler	2951.00/Ea

## Edvotek™ Digital Shaking Water Baths

Offer exceptional temperature control from ambient to 99°C.

Designed for the precise sample incubation when aeration and agitation are required.



- Feature a stainless-steel chamber
- Maximum temperature: 99°C (210°F)
- Accuracy of  $\pm 0.5^\circ\text{C}$
- 10L chamber size: 12 x 9 x 6 in. (30.5 x 22.9 x 15.2cm)
- 20L chamber size: 19.5 x 11.5 x 6 in. (49.5 x 28.7 x 15.2cm)
- Shipping weight: 19.4 lb.

Cat. No.	Description	Price
S05876	Digital Shaking Water Bath	2090.00/Ea

## Edvotek™ 1.8L Digital Water Bath

One-piece seamless, stainless-steel chamber is corrosion resistant.

- Digital temperature control
- Low-water sensor prevents burnouts
- Deep chamber holds bottles and flasks
- Ideal for enzyme incubations
- Maximum temperature: 95°C (203°F)
- Temperature accuracy:  $\pm 1^\circ\text{C}$
- Chamber size: 5.5L x 6W x 4 in.D (14 x 15.2 x 10.2cm)



**INCLUDES:** Cover

Cat. No.	Description	Price
S37220	1.8L Digital Water Bath	520.00/Ea

## Edvotek™ 10L Digital Water Bath

The all-new Edvotek 10 L waterbath incorporates digital temperature control and a low water sensor to prevent burnouts plus the deep chamber holds virtually any bottle or flask.

- Low-water sensor prevents burnouts
- Deep chamber holds virtually any bottle or flask
- Corrosion-resistant stainless-steel chamber
- Chamber temperature controlled from ambient to 95°C (205°F) with cover
- Maximum temperature: 95°C (205°F)
- Chamber size: 8.5 x 15 x 6 in. (21.6 x 38.1 x 15.2cm)



**INCLUDES:** Cover

Cat. No.	Description	Price
S97811	10L Digital Waterbath	856.00/Ea

## Poly Pro Water Bath

Seamless polypropylene chamber

Low-cost bath features unique chemical-resistant, easy-clean chamber that will not distort or bend during use. Patent pending Wave On Technology low-water detection system sounds alarm and turns off heater if water level drops below one inch.

- Temperature range: ambient to 99.9°C with uniformity to  $\pm 0.4^\circ\text{C}$
- Digitally calibrate temperature
- Settings automatically stored in case of power failure
- Large digital display
- 120V



**CERTIFICATIONS:**  
ISO 9001:2000

Cat. No.	Description	Price
S90307	Poly Pro Bath	559.00/Ea

## Double Poly Pro Water Bath

Patent-pending WaveOn™ water-sensing technology detects low water levels.

- Temperature range: ambient to 99.9°C
- Digital microcomputer provides display accuracy and temperature uniformity of  $\pm 0.4^\circ\text{C}$  without temperature drift
- Calibrate temperature digitally
- User friendly two-button operation, clear instructions printed on front label
- Large three-digit temperature display
- Settings automatically stored in case of power failure
- Low-water detection system sounds alarm and shuts off power if water level drops below 1 in. (2.5cm)



**Construction**

- Two polypropylene chambers keep media warm or provide precise temperature control for PCR procedures
- Each chamber holds 1.4 gal. (5.5L)
- Chamber surface resists distortion, corrosion and chemical attack; nonstick glossy finish is easy to clean
- Chamber's wide flange extends over top edge of exterior to prevent water from leaking into and damaging the electronics
- Durable, nonconductive polypropylene interior and exterior provide double insulation to protect against electrical shocks
- Sturdy, see-through cover
- Outside W x D x H: 22 x 18 x 5 3/4 in. (56 x 45.5 x 14.7cm)
- Power: 100/240V 50/60Hz

**WARRANTY:**  
Two years

**CERTIFICATIONS:**  
ISO 9001:2000

Cat. No.	Description	Price
S97248	Double Poly Pro Water Bath	898.00/Ea

## Centrifuges, Mixers and Tubes

## fisherbrand Locking-Lid Microcentrifuge Tubes with Polypropylene Snap-Cap™

Convenient, pierceable locking lids snap into place with one-handed operation.

- Polypropylene tubes with flat tops
- Ideal for sample-handling applications, including centrifugation, boiling and freezing of specimens, incubation and storage
- With graduation marks for volume estimation



**NOTE:** Centrifuges that develop excessive heat may damage these tubes.

Cat. No.	Capacity (Metric)	Color	Max. Force	Price
S06500	0.6mL	Blue	30000xG	92.00/Pk
S06501	0.6mL	Green	30000xG	92.00/Pk
S06498	0.6mL	Natural	30000xG	92.00/Pk
S06503	0.6mL	Orange	30000xG	92.00/Pk
S06499	0.6mL	Red	30000xG	256.00/Cs
S06504	0.6mL	Violet	30000xG	910.00/Cs
S06502	0.6mL	Yellow	30000xG	91.00/Pk
S06506	1.5mL	Blue	26000xG	137.40/Cs
S06507	1.5mL	Green	26000xG	47.75/Pk
S06511	1.5mL	Orange	26000xG	478.00/Cs
S06510	1.5mL	Red	26000xG	47.00/Pk
S06512	1.5mL	Violet	26000xG	136.47/Cs
S06513	1.5mL	Assorted	26000xG	47.75/Pk
S06516	2mL	Blue	25000xG	59.25/Pk
S06517	2mL	Green	25000xG	59.75/Pk
S06514	2mL	Natural	25000xG	59.75/Pk
S06519	2mL	Orange	25000xG	164.00/Cs
S06515	2mL	Red	25000xG	59.25/Pk
S06520	2mL	Violet	25000xG	177.00/Cs
S06518	2mL	Yellow	25000xG	59.75/Pk

## Small Storage Bin

Keep alcohol pads, pipet tips and finger cots within reach. Organizes and dispenses small, frequently used items. Ideal for small work center areas and lab bench use.



- White acrylic sides with transparent acrylic front panel for easy viewing
- Refill through top and lift hinged cover to dispense
- Dimensions: 7 x 5 x 6 in. (17.8 x 12.7 x 15.2cm)

Cat. No.	Description	Price
S97835	Small Storage Bin	151.00/Ea

## Graduated Conical-Bottom Tubes

Use in virtually any centrifuging application.

- 15mL
- Sterile polypropylene tubes
- Black graduations eliminate much of the eyestrain associated with reading tube graduations
- Large labeling area
- Leak- and chemical-resistant
- Maximum RCF of 6000 x g



**INCLUDES:**  
Plug seal

Cat. No.	Description	Price
S50712	Conical-Bottom Tubes	31.00/Pk

## United Scientific™ Centrifuge Tube Box

Durable alternative to foam racks.

- Polypropylene
- Autoclavable
- Dimensions: 5.7L x 5.7 W x 4.9 in.H (14.5 x 14.5 x 12.5cm)
- Blue
- Capacity: 15mL tubes
- 36 places



Cat. No.	Description	Price
S06977	Centrifuge Tube Box	20.50/Ea



## MiniSpin™ Personal Microcentrifuge

Extremely compact, with a small footprint to save valuable bench space.

- 12-place rotor holds tubes from 1.5 to 2.0mL (adapters for 0.5mL tubes available)
- Spin speed: variable up to 13,400rpm (12,100 × g)
- Quiet operation to benefit work environment
- Fast acceleration and braking times of <13 seconds
- Easy-to-use digital display indicates time and speed
- Set adjustable timer from 15 seconds to 30 minutes
- Use separate “Short-Spin” key for fast, convenient quick spins
- Excellent airflow minimizes heating and protects temperature-sensitive samples
- Lid automatically opens at end of run to prevent sample warming and reduce handling time

### ORDERING INFORMATION:

9.4L × 8.9W × 4.7 in. H  
(23.9 × 22.6 × 11.9cm). For 115V.

**WARRANTY:** Two-year

### COMPLIANCE:

Meets international centrifuge safety standards IEC 1010-2-020.



Cat. No.	Description	Price
S65960	Personal Microcentrifuge	1639.00/Ea

## fisherbrand accuSpin™ Micro 17 Microcentrifuge

Compact, economical high-speed microcentrifuge, ideal for nucleic acid research and other microliter volume separations.

- Capacity: 48mL (24 × 1.5/2.0mL tubes)
- Maximum speed/RCF: 13,300rpm/17,000 × g
- Ventilated model
- Easy-to-use controls with digital display
- Adjustable 99-minute timer and quick-spin feature for short runs
- Memory retains last setting for repeatable runs
- Supplied with rotor and biocontainment lid
- 9.5L x 8.9W x 13.8 in. H
- 120V/60Hz



### ORDERING INFORMATION:

Replacement microliter rotor, lid and optional 4 × 8 PCR rotor available separately.

### WARRANTY:

One year, parts and labor

Cat. No.	Description	Price
S98645	Micro 17 Microcentrifuge	2106.00/Ea

## fisherbrand Standard Mini-Centrifuge

Ideal for microfilter cell separations and HPLC samples.

- Features exclusive quick-release rotor for fast and easy changes
- Internal safety switch ensures unit will not operate without lid in place
- Removable cord for compact storage
- Max speed: 6000rpm
- Max RCF: 2000 × G



### INCLUDES:

- Two easy change, tool-free rotors: Six-place standard rotor for 1.5/2mL tubes, Eight-place strip rotor for two 0.2mL tube strips or 16 single tubes
- Six 0.2mL and six 0.5mL adapters for customized use
- Storage Case — Keeps rotors and adapters contained and dust-free
- Tube Rack — Convenient for handling samples before and after quick spins

Cat. No.	Description	Price
S67601B	Standard Mini-Centrifuge	460.00/Ea

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## fisherbrand Heavy-Duty Vortex Mixers

Strong, consistent mixing action for up to 8 microplates with optional accessory attachments.

- Designed for continuous duty
- Heavy-duty design and efficient motor allow mixer to operate in continuous duty and handle all accessories over entire speed range

### Standard Model

- Variable speed analog mixer
- Choose from two modes of operation: Touch mode for mixing tubes when cup head or Universal Holder with cover are depressed; On mode when using any of the accessory attachments for continuous operation
- Controls: 3-way power switch; speed knob: variable 1–10 dial marks

### Advanced Model

- For applications that demand repeatable results
- Touchpad controls and LED displays
- Accurate speed and time results
- Microprocessor control: 3-way power switch, LED display for time/speed up/down keys for set-point control
- Timer will display elapsed time or when programmed to a user-defined time limit, the unit will turn off when time reaches zero
- Choose from two modes of operation: Touch mode that activates mixing when depressing the cup head; Continuous mode when using accessory attachments

### ORDERING INFORMATION:

Dimensions: 9.5L × 6.6W × 6.3 in. H (24.1 × 16.8 × 16cm); electrical requirements: 120V, 0.25A, 30w; weight: 15 lb. (6.8kg). For 120V.

### INCLUDES:

Cup head, Universal Holder with cover, foam microtube insert for (38) 1.5 to 2.0mL microtubes and a 92 in. (234cm) detachable, three-wire cord and plug (230V available).

### WARRANTY:

Two years on parts and labor



Cat. No.	Type	Speed	Price
S02216108	Analog	300 to 2500rpm	840.00/Ea
S02216109	Digital	300 to 3500rpm	950.00/Ea

## Mini Vortex Mixer

Compact and powerful vortex mixer with touch function.

Compact and powerful vortex mixer with touch function.

- Fixed speed, 2800rpm
- 115V, 50-60Hz 0.6A

### ORDERING INFORMATION:

Compact and powerful vortex mixer with touch function.

### WARRANTY:

2 years



Cat. No.	Description	Price
S96461A	Mini Vortex Mixer	233.00/Ea

## Reagents

## Edvotek™ Predigested DNA

Predigested DNA for classroom studies

- The sizes of the  $\lambda$  / EcoRI DNA fragments, in base pairs, are 21226, 7421, 5804, 5643, 4878, and 3530
- A sample volume of 20 $\mu$ l is recommended for ethidium bromide or SYBR Safe staining and 35–40  $\mu$ l is optimal for methylene blue staining
- Shortly before loading, heat the fragments at 65°C for 3 minutes and quickly chill on ice
- 20g

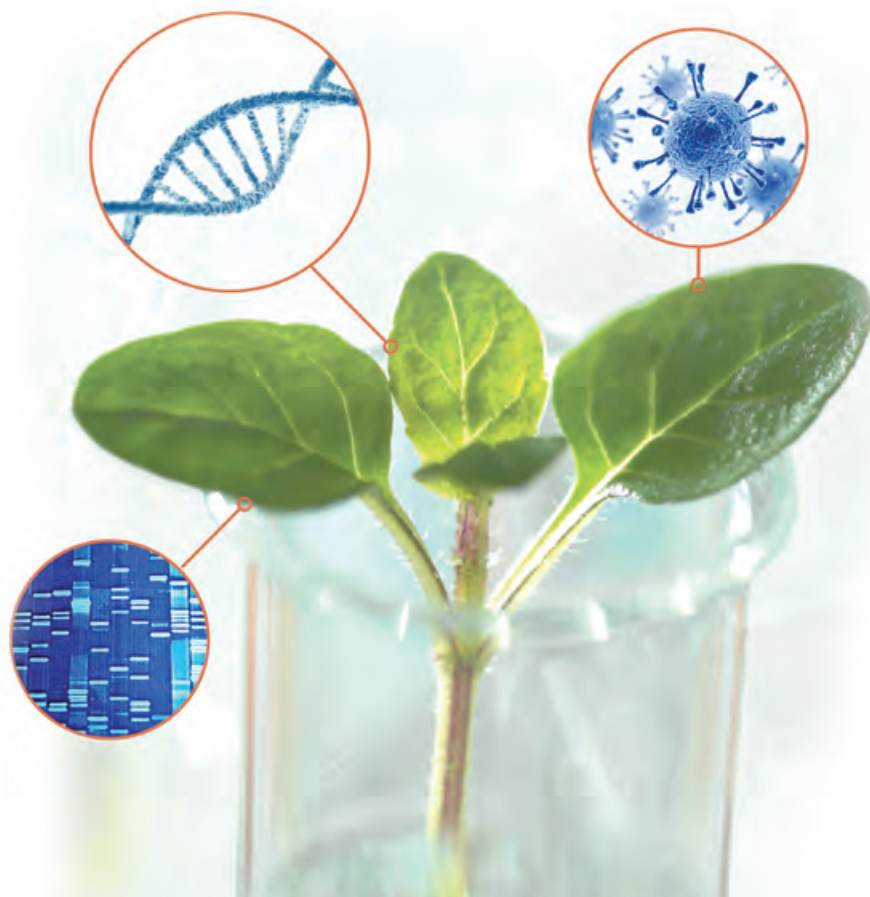


Cat. No.	Description	Includes	Price
S94624	Lambda DNA Digested	Hind III	38.50/Ea

# Ellyn Daugherty and the Fisher Science Education Team: Teaching Biotechnology Together

We're working with Ellyn Daugherty to create a complete list of *Biotechnology: Science for the New Millennium* materials and professional development opportunities for you.

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# PHYSICAL SCIENCES

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## Chemistry

## General Chemistry

## Kemtec™ Elements, Compounds and Mixtures I Kit

Introduce students to various concepts of elements, compounds, and mixtures.

- Special emphasis on separating mixtures by filtration and differences in solubility, chromatography and evaporation
- Separate two mixtures by filtration and differences in solubility
- Separate one mixture using paper chromatography
- Separate two mixtures by evaporation
- Isolate component colors from a chromatogram to examine individual components
- Includes all required chemicals, vocabulary exercise, reproducible worksheets and procedures
- Grades 7-10
- Class size: 24 students

**INCLUDES:**

Filter paper, chromatography paper, black ink, Copper Sulfate, Sodium Chloride, Copper Carbonate, Sulfur powder, instructor manual, SDS.

**REQUIRES:**

Goggles, balance.

Cat. No.	Description	Price
S06453	Elements, Compounds & Mixtures I	101.00/Ea

## Kemtec™ Chemistry Kit: Chemical Formulas I

Experimentally determine the correct chemical formulas for various compounds.

- Students combine chemicals in various ratios and observe the combination that produces greatest amount of precipitate
- Use the ratio of the combination to determine chemical formulas of newly formed substances
- Includes all required chemicals, vocabulary, chemical formula writing and naming worksheets, data sheets, reproducible procedures, and answer keys
- Grades 7-12
- Class size: 24 students

**INCLUDES:**

Plastic bottles with dropper caps, Calcium Chloride solution, Sodium Carbonate solution, Copper Sulfate solution, Sodium Hydroxide solution, instructor manual, methods of assessment manual, special needs guide, SDS

**REQUIRES:**

Goggles, test tubes, and test tube racks

Cat. No.	Description	Price
S06745	Chemical Formulas I Kit	87.00/Ea

## Kemtec™ Chemistry Kit: Ionic Interaction

Introduce junior high and high school students to writing ionic formulas and ionic interaction equations.

This kit provides an introduction to ionic interactions by giving students exposure to a large number of reactions, allowing maximal observation for a limited amount of time and effort.

- Includes precipitate forming, gas forming and non-ionized product forming reactions
- Relate placement of elements in periodic table to their reactivity
- Extend to write ionic formulas for products formed and ionic interaction equations
- Develop solubility principles from empirical evidence
- Ideal for high school chemistry or physical sciences studies
- Grades 9-12
- Class size: 24 students

**INCLUDES:**

Depression plates, plastic toothpicks, Calcium Nitrate, Potassium Sulfate, Cadmium Nitrate, Sodium Silicate, Cobalt Nitrate, Potassium Oxalate, Barium Nitrate, Potassium

Phosphate, Cupric Chloride, Potassium Chromate, Potassium Iodide, Acetic Acid, Manganese Nitrate, Potassium Hexacyanoferrate (iii) (ferricyanide), Nickel Nitrate, Potassium Hexacyanoferrate (ii) (ferrocyanide), Strontium Nitrate, Silver Nitrate, Lead Nitrate, Ferric Nitrate, Zinc Nitrate, Chromium Nitrate, Aluminum Nitrate, Potassium Bromide, Potassium Hydroxide, Potassium Chloride, Potassium Carbonate, instructor's manual with reproducible student sheet, SDS

**REQUIRES:**

Goggles



Cat. No.	Description	Price
S06751	Ionic Interactions Kit	230.00/Ea

## Kemtec™ Chemistry Kit: Chemical Properties

Students test chemical properties of seven different solutions in every possible combination.

- Students identify chemical properties by observing reaction of seven test solutions with other solutions
- Evidence of chemical reactions include gas production, color changes and formation of precipitates
- Students use what they learn about chemical properties to identify four unknown solutions
- Includes all required chemicals, reaction plates, reproducible worksheets and student procedures
- Grades 9-12
- Class size: 24 students

### INCLUDES:

Copper Sulfate solution, Hydrochloric Acid solution, Sodium Hydroxide, Acetic Acid, Ammonium Hydroxide, Sodium Carbonate, Sodium Bicarbonate, Unknown A, Unknown B, Unknown C, Unknown D, instructor manual, special needs guide, methods of assessment manual, SDS



### REQUIRES:

Goggles

Cat. No.	Description	Price
S06744	Chemical Properties Kit	187.00/Ea

## Kemtec™ Chemistry Kit: Stoichiometry Module

Explore types of chemical reactions, mole ratios and stoichiometric equivalents which are central to all chemical calculations.

Kit includes all required chemicals and supplies for performing experiments on a micro scale.

- Students perform series of experiments including electrochemistry decomposition reaction, single replacement reactions and double replacement reactions
- Students are encouraged to predict possible products, as well as write and balance reaction equations
- Students discover quantitative nature of chemical equations and experimental basis of balancing numerical coefficients
- Includes lab quiz
- Grades 9-12
- Class size: 24 students
- **This item is not returnable.**
- **Requires:** Goggles

### INCLUDES:

Instructor Manual, Student Manuals, SDS, Lab Quiz Sheets, Toothpicks, Pipettes, Pencil Lead, Forceps, Empty Bottles with Caps, Cotton String, Microplates (24 Well), Microplates (96 Well), Copper Nitrate, Nickel Nitrate, Lead Nitrate, Cobalt Nitrate, Nitric Acid, Aluminum Nitrate, Iron Nitrate, Sodium Carbonate, Sodium Sulfate, Sodium Chloride, EDTA,



Sodium Iodide, Sodium Thiocyanate, Sodium Chromate, Sodium Dichromate, Sodium Hydroxide, Calcium Nitrate, Sodium Oxalate, Copper Sulfate, Hydrochloric Acid, Nitric Acid, Sulfuric Acid

Cat. No.	Description	Price
S193837	Stoichiometry Module	432.00/Ea

## Kemtec™ Chemistry Kit: Characteristics of Matter

Explore various physical and chemical properties of matter.

- Students can observe chemical properties of five solutions by observing their reactions with other solutions
- Then determine names of two unknown solutions
- Ten experiments to explore various characteristics of matter: color, odor, solubility, shape, size, texture, density, alkalinity, acidity, states of matter, boiling point and melting point (graphing of melting and boiling points)
- Grades 5-9
- Class size: 24 students

- **Requires:** Balance, glassware and ice.

### INCLUDES:

Spot plates, wood stirrers, thermometers, 0.5 oz. plastic bottles with droppers and caps, blue and red litmus, pipets, Ammonia solution, Baking Soda solution, Calcium Chloride solution, vinegar, washing soda solution, Calcium Chloride solution, Calcium Carbonate, Sodium Chloride, Sucrose, Sand, instructor manual, special needs guide, methods of assessment manual, SDS



Cat. No.	Description	Price
S06736	Characteristics of Matter	195.00/Ea

## LAB-AIDS™ Determination of Chemical Formulas Kit

Relate chemical formulas to actual substances.

- Use a chemical analysis method to determine percent composition and molecular weight
- For ionic substances, determine the relative number of each of the ions in its composition
- Predict the various formulas of compounds formed by their reactions
- Turn abstract theory into realism
- An excellent companion to Families of Elements Experiment Kit (S19456)

**ORDERING INFORMATION:**  
Class size: 50 students.

### INCLUDES:

Chemplates™ with spatula (12); drop-controlled bottles of: Lead Nitrate solution (6), Sodium Oxalate solution (3), and Potassium Iodide solution (3); student worksheets and guides (50); and instruction manual with SDS



Cat. No.	Description	Price
S19428	English Kit	96.00/Ea



## LAB-AIDS™ Flame Tests and Emission Spectroscopy Kit

The entire concept of spectrum analysis introduced in one kit.



- Spray a fine mist of safe, water-based solutions of various salts into a Bunsen burner flame and observe what happens
- Learn why no two spectra have an identical color
- Students work in teams
- An important step in the analysis of an unknown substance
- Flame tests are observed unaided and with a hand-held spectroscope (included)

### REQUIRES:

Bunsen burners

Cat. No.	Description	Price
S19457	Flame Tests/Emission Spectroscopy	116.00/Ea

## LAB-AIDS™ Identification of Chemical Reactions Kit

Students determine the unknown with deductive reasoning.



- In this experiment, students mix seven known solutions into 21 possible combinations, resulting in color changes, precipitates or gas generation

### ORDERING INFORMATION:

Class size: 50 students.

### INCLUDES:

Chemplates™ with spatula (12); drop-controlled bottles of solution one, Hydrochloric Acid, Sodium Carbonate, Sodium Hydroxide, Potassium Chromate, Calcium Chloride, Sodium Sulfite, Copper Sulfate and an unknown solution; worksheets and guides; and instructions with MSDS

Cat. No.	Description	Price
S19421	Identification of Chemical Reactions, For 50 students	118.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Polyurethane Foam Chemical Kit

Excellent demonstration of thermoplastic polymers.

Produce polyurethane foam with the condensation reaction of a polyisocyanate and a hydroxyl-containing material (i.e., a polyol derived from propylene oxide).



- Lightweight foam expands to 30 times the original volume of the liquids
- Mix two viscous liquids to initiate a reaction
- After about 10 minutes, the foam hardens
- Perform in a fume hood and wear chemical splash goggles, apron and gloves as the chemical components are eye and skin irritants.

### INCLUDES:

Two premixed chemicals and instructions

### REQUIRES:

Plastic or paper cups and safety equipment

Cat. No.	Description	Price
S73009	Kit Includes Two Premixed Chemicals and Instructions	46.50/Ea

## Density of Liquids: The Color Column

Witness a colorful density gradient.

- Several liquids of varying color are added to a cylinder
- A density gradient forms due to differing densities of the liquids, resulting in a layered, multi-colored column
- As an optional investigation, compare the relative density of small solid objects by dropping them in the density column

### INCLUDES:

Materials for five demonstrations: 450mL glucose syrup, 400mL liquid detergent, 400mL vegetable oil, 400mL ethyl alcohol, 25mL blue food coloring, 25mL red food coloring, graduated cylinder, plastic cups (5) and instructions



Cat. No.	Description	Price
S98652**	Density of Liquids: The Color Column	54.25/Ea

## Nylon Rope Trick

Demonstrate polymerization at a liquid-liquid interface.

- Observe the synthesis of Nylon 610 at the interface of two immiscible liquids
- Rope can be wound around a stirring rod as the reactants continue to polymerize
- Total demonstration time: 20 minutes
- Enough materials for five demonstrations



### INCLUDES:

Two ready-to-use solutions

### REQUIRES:

250mL beaker, forceps and stirring rod

Cat. No.	Description	Price
S76784A**	Nylon Rope Trick	25.50/Ea

## United Scientific™ Cobalt Glass Plates

Used in flame tests to block orange color when performing sodium and potassium salt flame tests.



- Color: Dark blue
- Available in three different sizes
- 5.08 × 5.08cm (2 × 2 in.)

Cat. No.	Description	Price
S13136	Cobalt Glass Plates	17.75/Ea

## AquaPhoenix™ Globally Harmonized System Warning Pictogram Poster

Explains the nine Physical, Health and Environmental Hazard pictograms as part of the GHS system of classification/labelling of chemicals.

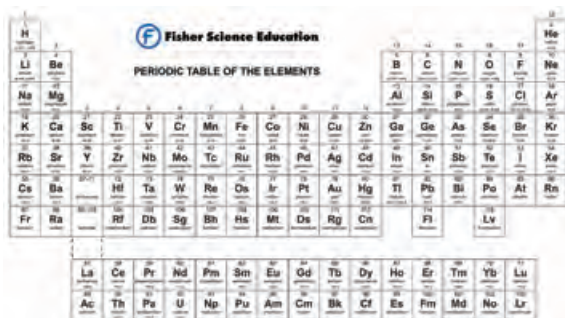


- Features the nine pictograms of the GHS system of classification/labelling of chemicals
- Heavy glossy paper stock
- Size: 24 × 36 in.

Cat. No.	Description	Price
S08085	GHS Poster	14.50/Ea

## Fisher Science Education™ Periodic Table of Elements Poster

Offers a large format and easy-to-use display.



- Printed on 10mL indoor/outdoor poster stock material
- Corner grommets for easy display
- Large 48 × 84 in. display

Cat. No.	Description	Price
S07899	Tear resistant; Size: 48 × 84 in.	225.00/Ea

## Periodic Table Pen

Periodic table built into a pen.



Cat. No.	Description	Price
S05880	Periodic Table Pen	7.00/Ea

## Edvotek™ Ion-Exchange Chromatography

Learn the principles of ion-exchange chromatography.

Most biological molecules have a net charge within a pH range of 2 to 10. When the pH is altered, the net charge on molecules can change drastically.



- Learn the principles of ion-exchange chromatography by separating two charged molecules using a two-step salt gradient
- Proteins are absorbed onto a charged solid support ion-exchange column and subsequently separated during elution under conditions that influence their net charge

### INCLUDES:

Materials for six separations: ion exchanger, CM-Cellulose; concentrated Potassium Acetate buffer, pH 6.0; dye mixture: blue dye, Cytochrome c; Cytochrome c Standard (10mg/mL); chromatography columns; plastic pipets; 1mL pipet; 15mL conical tubes; microcentrifuge tubes; complete instructions; background information; and study questions

### REQUIRES:

5mL test tubes; ring stand with clamps for columns; 100 or 200mL beakers or flasks; 100, 250 and 500mL graduated cylinders; distilled water; 5mL pipets and pumps; and spectrophotometer and cuvetts (optional, must be able to read 1mL samples)

Cat. No.	Description	Price
S94617	For 6 Separations	147.00/Ea

## Edvotek™ Principles of Gel Filtration Chromatography

Teach the principles of gel filtration chromatography to your class.

- Demonstrates how dyes of different colors separate on the basis of their size and shape
- Columns may be rinsed and reused
- Requires 50 or 100mL beakers, 25mL beaker or test tube and ring stands with clamps



### INCLUDES:

Instructions, sample mixture, chromatography columns, dry matrix, elution buffer, transfer pipets, microtest tubes

Cat. No.	Description	Price
S11108	For 10 Separations	140.00/Ea

## Silica Gel 60 F<sub>254</sub> Coated Plastic-Backed TLC Sheets

Allows analyzation of any substance when combined with suitable mobile phase.

- Combination of unmodified silica gel 60 and polymeric binder for hard and adherent surface, resistant to crack and damage
- Dense plate coating ensuring narrow bands and maximum sample separation efficiency
- Layer thickness of 200µm with mean particle size of 10 to 12µm
- Can be cut with scissors for individual separation requirements
- Green fluorescing inorganic florescent indications for UV detection of colorless substance
- Available in a broad range of sizes
- Disposable
- Fibre case packaging
- In-process control in drug synthesis
- Identity and stability testing of drugs
- Quality control of pharmaceuticals, food and environmental samples
- Residue analysis in food and environmental samples

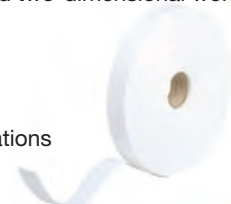


Cat. No.	Description	Price
S07879	20 × 20cm; 25 sheets	201.25/Ea

## Chromatographic Paper

For general analytical separations, good resolution

- No. 1 paper can be used for one- and two-dimensional work
- Smooth surface
- Thickness: 0.07 in. (0.18mm)
- Medium flowrate
- Good resolution
- Suitable for general analytical separations
- Flow Rate 130/30mm/min.
- 100m roll



Cat. No.	Length (Metric)	Width (Metric)	Price
S47087	100m	2cm	42.50/Ea

## LAB-AIDS™ Design-Your-Own Custom Molecular Model Kit

Challenge students to create molecular models with this complete assortment of color-coded atoms and bonds.

- Atoms molded of high-impact polystyrene and polypropylene  
Flexible vinyl connectors represent the bonds
- Double and triple bonds are easily constructed and come apart only when intended



### INCLUDES:

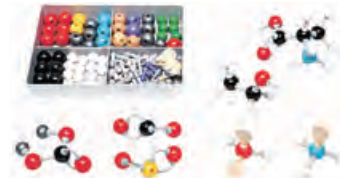
Atoms (490) and bonds (300)

Cat. No.	Description	Price
S19491	Design Your Own Molecular Model	99.00/Ea

## 3B Scientific™ Inorganic/Organic Student Set

Teaching tool designed for school, college or self study (private) chemistry courses.

- Model for organic structures and inorganic molecules with empirical formula representations, for example carbon dioxide, ammonia, sulphuric acid, calcium hydroxide, metal salts, copper sulphate, alkanes, alcohols, glucose and benzene
- Used to represent any element having one sp<sup>3</sup>, one dsp<sup>3</sup> and one d<sup>2</sup>sp<sup>3</sup> in addition to existing element hybridizations done by three brown atoms
- Molecular model easily assembled and reassembled
- Links provided to make single, double, and triple bonds for OPEN and short links for CLOSED models



### INCLUDES:

51 atom-parts, 6 Carbon 4-holes tetra, black, 6 Oxygen, 2-holes ang., red, 14 Hydrogen, 1-hole, white, 3 Nitrogen, 2 tetra, 1 tribipyr., blue, 3 Sulphur, 1 ang., 1 tetra, 1 octa, yellow, 1 Phosphorus, 4-holes, purple, 6 Halogen, 1-hole green, 3 Metal, 1-hole, 17mm, grey, 6 Metal, 3 ang., 2 pyr., 1 tetra, grey, 3 Brown, 1 sp<sup>3</sup>, 1 dsp<sup>3</sup>, 1 d<sup>2</sup>sp<sup>3</sup> 26 links, grey, medium ML-12 12 links, grey, flexible long ML-13

Cat. No.	Description	Price
S07017	Inorganic/Organic Student Set	32.75/Ea

## Eisco Student Basic Organic Chemistry Molecular Model Sets

Let students visualize three-dimensional molecule structures and understand molecular formulas.

- Hard plastic balls of different colors represent atoms
- Each has holes at correct angles to be connected with flexible plastic "bonds"
- Medium links represent single covalent bonds while long links can be used for double and triple covalent bonds



### 114-Piece Set

- 12 Black Carbon (4 holes)
- 20 White Hydrogen (1 hole)
- Six red Oxygen (2 holes)
- Four blue Nitrogen (4 holes)
- Two yellow Sulphur (6 holes; 1 hole)
- One purple Phosphorus (4 holes)
- One gray metal (1 hole)
- 28mm Gray links (26)
- 43mm Gray links (12)
- 28mm White links (26)
- Assembly tool

### 54-Piece Set

- 14 White Hydrogen (1 hole)
- Six black Carbon (4 holes)
- Two blue Nitrogen (4 holes)
- Six red Oxygen (2 holes)
- Two green Halogen (1 hole)
- 28mm Gray links (20)
- 43mm Gray links (4)

Cat. No.	Description	Price
S96538	54 Pieces Molecular Model Set	32.25/Ea
S96539	114 Pieces Molecular Model Set	44.00/Ea



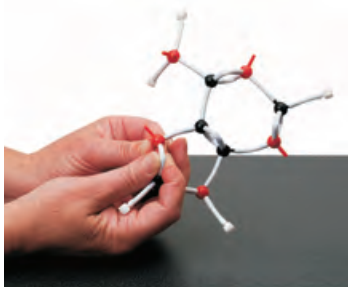
## LAB-AIDS™ Molecules of Life Kit

Eight great model-building activities.

Construct models of many common molecules. The kit's molecular components are reusable and provide an easy way to study isomerism.

### Construct:

- Water
- Three monosaccharides
- Part of a starch molecule
- Models of amino acids



### ORDERING INFORMATION:

Class size: 30 students (15 teams).

### INCLUDES:

- Worksheets
- 1800 color-coded plastic atoms

Cat. No.	Description	Price
S19486	Molecules of Life	149.00/Ea

## Large Molecular Model Set

For middle school through high school chemistry courses in which students learn about inorganic and organic molecules, as well as crystal molecules like graphite and diamond.



- The springs easily allow demonstrations of single bonds, double bonds and triple bonds
- Ball and spoke molecular model set includes 176 plastic spheres, 225 rigid plastic connector tubes and 10 flexible tubes
- Spheres are 30mm in diameter, except for hydrogen, which are 23mm in diameter
- Holes on the molecules are properly placed to make realistic figures

### INCLUDES:

Plastic storage case

Cat. No.	Description	Price
S06695	Large Molecular Model Set	86.00/Ea

## PYREX™ Deluxe Microchemistry Glassware Kits with Standard Taper 14/10 Threaded Joints

Particularly useful in teaching and research establishments where assembly time is at a premium.

Deluxe microchemistry kit is supplied with all the components needed to perform experiments covered in *Microscale Organic Laboratory* by Mayo, Pike and Butcher (John Wiley and Sons). The component parts of the kits are interchangeable with other Pyrex brand apparatus that have the same standard taper joint size.



- Components come in standard taper 14/10 threaded joint sizes
- Includes selection of conical reaction vials from 0.1 to 5.0mL capacity

- Components are separated by a urethane foam liner in a plastic storage case

Cat. No.	Description	Price
S90555B	Complete Kit	501.00/Case

## Eisco Student Organic and Inorganic Chemistry Molecular Model Sets

Lets students visualize three-dimensional molecule structures and understand molecular formulas

Hard plastic palls of different colors represent atoms; each has holes at correct angles to be connected with flexible plastic "bonds." Medium links represent single covalent bonds while long links can be used for double and triple covalent bonds.



- Six black carbon (4 holes)
- 14 White hydrogen (1 hole)
- Two blue nitrogen (4 holes)
- One blue nitrogen (5 holes)
- Six red oxygen (2 holes)
- Three yellow sulfur (one each: 2 holes, 4 holes, and 6 holes)
- One purple phosphorus (5 holes)
- Six green halogen (1 hole)
- Three gray metal (1 hole)
- Three gray metal (2 holes)
- Two gray metal (3 holes)
- One gray metal (4 holes)
- One brown (4 holes)
- One brown (5 holes)
- One brown (6 holes)
- 28mm gray links (20)
- 43mm gray links (10)
- 28mm purple links (5)
- Instruction manual

Cat. No.	Description	Price
S96540	Organic and Inorganic Chemistry Molecular Model Set	49.25/Ea

## Eisco Student Basic Organic Chemistry Molecular Model Sets

Lets students visualize three-dimensional molecule structures and understand molecular formulas

Hard plastic palls of different colors represent atoms; each has holes at correct angles to be connected with flexible plastic "bonds." Medium links represent single covalent bonds while long links can be used for double and triple covalent bonds.



- 12 Gray metal (2 holes)
- 10 Gray metal (3 holes)
- 10 Gray metal (6 holes)
- 42 Red oxygen (2 holes)
- 12 Red oxygen (4 holes)
- 18 Red oxygen (1 holes)
- 12 Yellow sulfur (4 holes)
- 15 Blue nitrogen (3 holes)
- 45 Black carbon (4 holes)
- 12 Purple phosphorus (4 holes)
- Six purple phosphorus (3 holes)
- 36 White hydrogen (1 hole)
- 170 Medium gray links
- 100 Long gray links

Cat. No.	Description	Price
S96541	Basic Organic Chemistry Molecular Model Set	104.00/Ea

## United Scientific™ Organic Chemistry Glassware Sets

Available in a standard set of nine and a deluxe set of 16 pieces.

The standard set is designed to cover essential requirements for organic chemistry and is suitable for preparations up to 30g. All glassware is jointed (joint sizes available upon request). The deluxe set is suitable for preparations up to 150g. Both sets come in a sturdy, form fitting case.



### Standard Organic Chemistry Glassware Kit (9 piece):

1 Pear-Shaped Flask (50ml); 1 still head; 1 Liebig condenser; 1 screw cap adapter; 1 receiver adapter; 1 air leak/steam inlet tube; 1 dropping funnel (50 ml with Rotoflo tap); 1 stopper; 1 thermometer

### Deluxe Organic Chemistry Glassware Kit (16 piece):

1 Still Head (14/23); 1 Receiver (19/26 )/Cone (14/23); 1 Air Leak / Steam Inlet Tube (14/23); 1 Liebig Condenser (19/26); 1 Dropping Funnel (100ml); 1 Reducing Adapter; 1 Multiple Adapter; 1 Round Bottom Flask (50ml); 1 Round Bottom Flask (100ml); 1 Round Bottom Flask (250ml); 1 Erlenmeyer Flask (250ml); 1 Stopper; 3 Thermometer Pocket; 1 Receiver Adapter

Cat. No.	Description	Price
S07385	Organic Chemistry Glassware Sets	154.00/Ea

## Molecular Model Organic Structure Set

Organic structure model set allows you to clearly illustrate the significance of chemical formulas.

- Allow students to visualize the three-dimensional nature of a molecule
- Basic Set demonstrates organic structure
- Advanced Set demonstrates organic, inorganic, and molecular structure



### INCLUDES:

**Molecular model sets** include balls, as indicated in chart; pegs; springs; and detailed instructions.

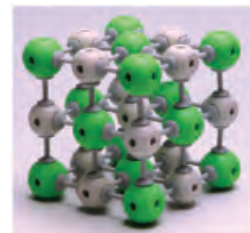
**Replacement bond set** includes 1.25 in. (3.18cm), wooden pegs (30), 2 in. (5.1cm) wooden pegs (10), and 2.13 in. (6.5cm) springs (10). Replacement ball sets include balls only.

Cat. No.	Type	Price
S44052	Molecular Model Set	43.50/Ea

## Eisco Crystal Lattice Models

Lattices represent classic crystal structures.

- Sodium Chloride: Connectors (54), black jacks (13) and red jacks (14)
- Graphite: Connectors (69), long black connectors (8), black jacks (45) and red jacks (12)
- Diamond: Connectors (84) and jacks (57)



### INCLUDES:

Assembly instructions

Cat. No.	Dimensions (L x W x H)	Weight (English)	Price
S96542	7.08 x 5.51 x 1.57 in. (18 x 14 x 4cm)	0.7 lb.	20.25/Ea
S96543	7.08 x 5.9 x 1.96 in. (18 x 15 x 5cm)	0.74 lb.	27.25/Ea
S96544	7.08 x 5.51 x 1.57 in. (18 x 14 x 4cm)	0.66 lb.	20.25/Ea

## PYREX™ Chemistry Glassware Kit with 19/22 Joints

Versatile kit enables performance of many standard laboratory operations.

Includes all components needed to perform experiments such as distillation and simple reflux and reaction with gas evolution, preparation or recovery.

- Includes a distillation column and bleed tube for steam distillation or gas flow reactions
- Components are separated by a urethane foam liner in a polyethylene storage case
- Case: «5.12 x 10.1 x 1.7 in. (13 x 25.6 x 4.3cm)



Cat. No.	Description	Price
S90555C	Chemistry Glassware Kit with 19/22 Joints	919.00/Cs

Advanced Placement

## DWK Life Sciences Kimble™ Kontes™ Kem-Kit™ Semi-Macro 19/22 Organic Chemistry Kit

Compact, 14-piece kit for organic chemistry studies

- Selection of basic small-scale glassware with standard taper 19/22 joints
- Performs extraction, reflux, reflux with addition, fractionation, distillation (steam, atmospheric, and vacuum), and other organic chemistry applications
- Supplied in a heavy-duty, double-wall polyethylene storage case with handle and hinged lid
- Case dimensions: 13.5L x 11W x 5.5 in.H (34 x 28 x 14cm)



### ORDERING INFORMATION:

- Comprehensive instruction manual
- Storage case

Cat. No.	Description	Price
S65959	Kem Kit Semi-Macro 19/22	685.00/Ea

## DWK Life Sciences Kimble™ Kontes™ Kem-Kit™ Semi-Macro Standard Taper 14/20 Organic Chemistry Kit

Kontes' standard taper 14/20 Kem-Kit features many of the same components as the 19/22 kit. Designed for maximum flexibility, this kit works with most glassware found in organic labs. Ideal for performing extraction, reflux, reflux with addition, fractionation, distillation (steam, atmospheric, and vacuum), as well as other applications.



- Standard taper glassware minimizes apparatus setup—allowing you and your students to focus on the application
- Students will gain valuable insight and experience in techniques normally reserved for more advanced projects
- Kit is supplied in a double-wall, heavy-duty polyethylene storage case with handle and hinged lid
- Includes comprehensive instruction manual

### ORDERING INFORMATION:

Case dimensions: 13 ½ x 11 x 5 ½ in. (34 x 28 x 14cm)

Cat. No.	Description	Price
S67549	Kem-Kit Semi-Macro 14/20	700.00/Ea

## LAB-AIDS™ Thin-Layer Chromatography Kit

Lab techniques involve silica-gel-coated plastic slides, indicators, developers and chromatography chambers.



- Establish Rf values to establish standards; each student runs chromatograms of five different sample dye solutions
- Use Rf standards to identify unknown substances, which are identified for the teacher in the instruction booklet
- Determine the purity of a system with thin layer chromatography
- Can be performed in a single lab period

### ORDERING INFORMATION:

Class size: 24 students.

### INCLUDES:

Developing chambers with caps (12); TLC layers (72); bottles of TLC solvent (4); vials of capillary applicators (2); drop-controlled bottles of one each: Sudan IV, Methyl Violet, Indigo Carmine, Methyl Orange and Methyl Blue; empty vials (2); student worksheets and guide (24); and an instruction manual with MSDS

Cat. No.	Description	Price
S19347	Thin Layer Chromatography Kit	253.00/Ea

## GSC Go Science Crazy Eudiometers

Measures change in volume of gas mixture following a physical or chemical change.

- Capacity: 50 to 100mL
- Subdivisions at 0.1 to 0.2mL
- Includes 2 platinum electrodes



Cat. No.	Description	Price
S32353	50mL with Subdivisions at 0.1mL	51.75/Ea
S32356	100mL with Subdivisions at 0.2mL	72.25/Ea



## GSC Go Science Crazy Platinum Electrodes

Precision tube construction provides desired results.

- Platinum plate with copper lead wire is sealed in glass tubing
- Tubing fits into No. 1 rubber stopper
- Only platinum plate, glass tubing, and stopper come into contact with solution, thus eliminating undesirable results
- Plate: 3 × 13mm



### ORDERING INFORMATION:

Packed in protective plastic tube

Cat. No.	Description	Price
S43500	Electrodes Platinum Pk/2	60.00/Pk

## pH and Conductivity

## Acids, Bases and the pH Scale

Learn about the properties of acids and bases, the role of hydrogen and hydroxide ions and the nature of the pH scale.



- Examine the effects of acids and bases on several chemical pH indicators
- Determine the pH of common household materials
- Use the knowledge gained to determine the composition of four unknown clear solutions

### INCLUDES:

Materials for 15 groups: 25mL each of deionized water, dilute acid (0.1M HCl), dilute base (0.1M NaOH), 0.5% litmus, 0.02% Methyl Red, 0.5% Bromothymol Blue, 1.0% Phenolphthalein, vinegar, household ammonia, soap solution, filtered water, Vitamin C solution, unknown solution #1 (water), unknown solution #2 (dilute base), unknown solution #3 (phenolphthalein) and unknown solution #4 (dilute acid); wide-range pH test strips (pack of 50); reaction trays (15); teacher's guide; and copy-masters

Cat. No.	Description	Price
S96406*	Acids, Bases, and the pH Scale Kit	77.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## fisherbrand FE150 pH Benchtop Meter Sets

Designed for convenient routine pH measurement in the lab: user-friendly, stores data sets in non-volatile memory and meter-attachable electrode stand. Efficient sample reading and recording with flexible display options: display both pH and temperature or mV and temperature simultaneously.

The essential functions needed for routine measurements

- One to five point pH calibration
- Automatic buffer recognition with selection of two pH buffer sets
- pH slope and offset display
- One point mV calibration
- One point ATC temperature probe calibration
- Automatic or manual temperature compensation
- Ready icon to indicate measurement stability
- Electrode condition icon to indicate status
- 100 data set storage with non-volatile memory



Cat. No.	Description	Price
S35925	3-in-1 benchtop pH meter set with 3-in-1 single-junction pH/ATC electrode	461.50/Ea
S35924	Benchtop meter bio set with double junction gel pH electrode	454.50/Ea

## Oakton™ Waterproof Double-Junction pHTestr™ 30

Replaceable, double-junction electrode sensors save time and money.

- IP67-rated housing sits flat on the table, floats in water and resists most chemicals
- Can be used with wastewater and solutions containing sulfides, heavy metals and TRIS
- Electrode sensors offer a clog-resistant Kynar™ junction and a recessed, glass pH bulb to protect against breakage
- Three-point calibration with auto-buffer recognition at both USA and NIST™ standard buffers
- Features four-digit LCD display, automatic temperature compensation, hold function, auto-off function, self-diagnostic error messages and a three-segment battery life indicator
- Operating Temperature: 0 to 50°C (32 to 122°F)
- Dia. × L: 1.5 × 6.5 in. (1.27 × 16.5cm)
- Range: -1.0 to +15.0
- Resolution: 0.01
- Accuracy: ±0.01

### INCLUDES:

Four 1.5V button cell batteries



Cat. No.	Description	Price
S90523	pH Tester 30	213.00/Ea

## Oakton™ Waterproof pH 150 Portable Meter

Rugged, reliable and accurate meter to measure pH, mV and temperature.

- Intuitive, user-friendly icons show electrode status as pH slope
- IP67 waterproof
- Grip-Clip™ holder for quick and easy attachment of electrode to beaker or container
- Large, three-line LCD displays pH or mV measurement simultaneously with temperature and calibration data with % slope
- Up to 6-point calibration from USA, NIST™ and DIN pH buffer sets
- Auto buffer recognition feature to identify correct pH buffer for rapid calibration
- Automatic temperature compensation (ATC) for measurement accuracy, even in fluctuating temperatures
- mV offset for calibration of ORP standards, zeroing mV value, and pH diagnostics
- Measuring Range: -2.00 to 16.00 (pH); ±2000 (mV); -10° to +110°C (temp.)
- Manual data storage allows recall of 150 data sets, as well as the last calibration's data
- Select temperature readout from °C/°F to suit your application
- Other features include stability indicator, smart averaging, hold function, visible calibration alarm, battery life indicator, BNC connector and electrode status
- Two AA batteries with 700 hours battery-life or optional universal power adapter
- Built-in stand with wall mount option allows for easy benchtop measurement or storage



### pH 150 Portable Meter Models

- Cat. No. S23112: Includes All-in-One single-junction pH/ATC electrode, Grip-Clip electrode holder and two AA batteries
- Cat. No. S23116: Includes All-in-One single-junction pH/ATC electrode, Grip-Clip electrode holder, calibration solutions, carrying case and two AA batteries

**WARRANTY:**  
Three years

**CERTIFICATIONS:**  
CE marked

Specifications	
Range (pH)	-2.00 to 16.00
Accuracy (pH)	±0.01
Resolution (pH)	0.01
Range (mV)	±2000mV
Accuracy (mV)	±0.2
Resolution (mV)	0.1 from 0.1 to 999.9, 1 from 1000 to 2000
Temperature Range (Metric)	-10° to +110°C
Temperature Range (English)	17° to 230°F
Accuracy (Temperature)	±0.5°
Resolution (Temperature)	0.1°

Cat. No.	Description	Price
S23112	pH Meter with Electrode	550.00/Ea
S23116	pH Meter Kit	622.00/Ea

## Ohaus™ Starter Water Analysis Bench Meters: Model 2100

Durable, accurate bench meters for a variety of lab applications. Ohaus Starter Water Analysis Bench Meters: Model 2100 provides reliable pH testing with intuitive software/organized display for usability.

- Clearly marked input keys
- Built-in or standalone electrode holders
- Reliable calibration for accurate measurement
- Built-in electrode arm for simple and convenient operation
- Auto buffer minimizes errors during calibration process
- Reliable measurements
- Cost effective
- Size: 220 × 175 × 78mm
- Weight: 0.75kg
- LCD Display
- Resolution: 0.01 pH; 1 mV; 0.1°C

**INCLUDES:**

Water analysis meter; available with or without electrode



Cat. No.	Description	Price
S05072	Water analysis meter with built-in electrode arm only; Electrode sold separately	446.00/Ea
S05073	Water analysis meter with ST210 2-in-1 plastic refillable pH electrode and pH buffer powder sachet	474.00/Ea

## Ohaus™ Starter Series Electrodes

Use in combination with Starter bench and portable meters.



- Designed to produce exact results time and time again
- Sturdy and durable
- Built to withstand daily use
- Includes a temperature sensor, which powers automatic temperature compensation and ensures accurate measurements
- Fits in electrode holders on bench meters and electrode clips on all portable meters

**APPLICATIONS:**

- Ideal for use in lab or field.

Cat. No.	Description	Price
S14232	ST350 3-in-1 pH Electrode	168.00/Ea
S14234	STMICRO8; Shaft dia. × L: 150 × 8mm (lower part)	260.00/Ea
S14235	ST260 2-in-1 pH Electrode	158.00/Ea
S14236	STSURF 2-in-1 Flat pH Electrode	154.00/Ea
S14237	STCON7 Conductivity Electrode	518.00/Ea

## Ohaus™ Starter Pen Meters

Convenient, accurate results in seconds.

- Portable and compact
- Single-hand operation
- Durable IP67 waterproof design
- With wrist strap for security
- Auto shutdown after four minutes of non-use
- Require four AG13 1.5V microalkaline batteries
- Size/weight: 185 × 45 × 38mm; 110g
- Choose from five models in a variety of calibrations.



Cat. No.	Model	Range	Resolution	Temp. Display	Price
<b>pH Pen Meters</b>					
S05084	ST10	0.0 to 14.0pH	0.1pH	Yes	61.00/Ea
S05085	ST20	0.00 to 14.00pH	0.01pH	No	102.00/Ea
<b>ORP Pen Meters</b>					
S05086	ST10R	-1000 to 1000mV	1mV	No	133.00/Ea
S05087	ST20R	-1000 to 1000mV	1mV	Yes	175.00/Ea
<b>Conductivity Pen Meters</b>					
S05088	ST10C-A	0.0 to 199.9µS/cm	0.1µS/cm	No	81.00/Ea
S05089	ST10C-B	0 to 1999µS/cm	1µS/cm	No	81.00/Ea
S05090	ST10C-C	0.00 to 19.99mS/cm	10µS/cm	No	81.00/Ea
S05091	ST20C-A	0.0 to 199.9µS/cm	0.1µS/cm	Yes	117.00/Ea
S05092	ST20C-B	0 to 1999µS/cm	1µS/cm	Yes	117.00/Ea
S05093	ST20C-C	0.00 to 19.99mS/cm	10µS/cm	Yes	117.00/Ea
<b>Salinity Pen Meters</b>					
S05094	ST10S	0.0 to 10ppt	+/- 2.5% FS	Yes	81.00/Ea
S05095	ST20S	0.0 to 80.0ppt	+/- 1.5% FS	No	117.00/Ea
<b>TDS Pen Meters</b>					
S05096	ST10T-A	0.0 to 100.0mg/L	0.1mg/L	No	92.00/Ea
S05097	ST10T-B	0 to 1000mg/L	1mg/L	No	92.00/Ea
S05098	ST20T-A	0.0 to 100.0mg/L	0.1mg/L	Yes	117.00/Ea
S05099	ST20T-B	0 to 1000mg/L	1mg/L	Yes	117.00/Ea

## Ohaus™ Starter Water Analysis Meter Replacement Electrodes

Replacement electrodes for Starter portable and benchtop meters.



### Compatible Meters

- Starter benchtop: 2100, 3100 and 3100C
- Starter portable: 300, 300C and 300D

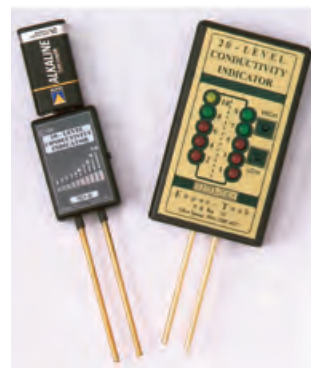
Cat. No.	Description	Price
S05105	Saturated Calomel Reference Electrode	184.00/Ea
S05109	Four-Pole Conductivity Electrode	289.00/Ea

## Conductivity Indicators

Ideal for comparing various solutions across a wide range of conductivity levels.

Simply immerse the probes in the solution and record the display lamp lit. The higher the numbered display lamp lit, the greater the solution conductivity.

- Unique, multiple lamp conductivity display determines the relative conductivity of solutions
- Choose from the 10-level RCI Junior or the advanced, 20-level RCI-DX conductivity indicator
- LED Display Type



### REQUIRES:

9V transistor battery

Cat. No.	Description	Price
S63198	RCI-JR (10-level RCI Junior)	71.50/Ea

## Thermo Scientific™ Orion™ 9107BN Triode™ 3-in-1 pH/Automatic Temperature Compensation Probe

Operate the highly-versatile Thermo Scientific™ Orion™ 9107BN Triode™ 3-in-1 pH/Automatic Temperature Compensation Probe in either the field or a plant

### FEATURES:

- Material: epoxy body for ruggedness
- pH range: 0 to 14
- Temperature range: 0° to 90°C
- Type reference: Ag/AgCl Junction: Wick
- Has an Ag/AgCl internal reference system, sealed reference
- 1.5m cable

### Recommended for use with:

Orion 210, 230, 250, 410, 420, 520, 525, 710, 720, 920 A Series and A+ series meters

### Dimensions:

110 × 12mm, Cap diameter: 16mm



Cat. No.	Description	Price
S04955	9107BN Triode pH/ATC Probe	286.50/Ea



## Instrumentation

## Thermo Scientific™ GENESYS™ 30 Visible Spectrophotometer

Perform both basic and complex analyses with the Thermo Scientific™ GENESYS™ 30 Visible Spectrophotometer, an intuitive, reliable solution for education or in the lab.

Get high precision and functionality in a simple yet sophisticated visible spectrophotometer. The Thermo Scientific™ GENESYS™ 30 Visible Spectrophotometer performs both basic and complex analyses for educational or industrial use. Its intuitive design allows students and teachers to focus on scientific data and concepts rather than on learning how to use the instrument. In the lab, technicians of all levels working in routine QA/QC applications can easily obtain credible results to confirm quality or inform next steps. Results can be reported quickly as digital or printed data.

The GENESYS 30 visible spectrophotometer brings you intuitive design, a high definition color screen, fast and accurate measurements, and convenient data reporting. It is the ideal instrument for any user, whether a novice student or an experienced lab associate.



### Product FEATURES:

- Entirely new industrial design for better usability
- High definition 5-inch color screen with rubberized push-button keypad for easy navigation
- Single cell measurement with removable, washable sample compartment liner
- Cell holders for standard cell types including test-tubes
- New onboard software UI; Thermo Scientific™ VISIONlite PC software is optional
- Data any way you want it
- USB data export in a text format that's easy to read and process
- Excellent snap-on thermal printer
- Three-year warranty and skilled technical support

### Educator benefits:

- Meets curriculum requirements for:
  - Single wavelength
  - Scanning
  - Beer's Law
  - Colorimetry/colorimetric analysis
  - Quantitative analysis

### Lab associate benefits:

- Higher data confidence with 6-point quant plus concentration mode
- Multiple local language choices

Cat. No.	Description	Price
S28454	GENESYS 30	2550.00/Ea

## Thermo Scientific™ GENESYS™ 10S UV-Vis Spectrophotometer

Thermo Scientific™ GENESYS 10S UV-Vis spectrophotometer utilizes a high-intensity xenon lamp and dual-beam optical geometry to deliver unsurpassed data quality. Firing pulses of light only when the instrument is taking a measurement, the xenon lamp provides strong illumination from the UV to the near-IR region of the spectrum. Whether your application is research or routine analysis, educational or industrial, you can count on the GENESYS 10S for accurate and reliable results. The GENESYS 10S spectrophotometer series offer an excellent value providing high-performance, reliability, ease-of-use and a low cost of ownership.

### Research Quality with Routine Simplicity

- Accelerate through wavelength scans with scan speeds up to 4,200nm/minute
- Depend on dual-beam optics for superior photometric accuracy
- Acquire data from the UV to the near-IR
- Choose from feature-rich local control or computer software options
- Increase sample throughput with the integrated 6-cell changer
- Save data to a USB memory device
- Rely on accurate data with pre-programmed verification methods
- Go beyond the GENESYS 10S instrument with accessories available for every type of sample

### Maintenance-Free Lamp

- Save time with the instant-on xenon flash lamp
- Perform accurate analysis over the entire wavelength range of 190-1100nm
- Prevent damage to sensitive samples as the lamp only flashes when data is being acquired
- Save money with long-lifetime xenon flash lamp (guaranteed for 3 years)
- Lamp produces no heat so sample compartment temperature remains stable



Cat. No.	Description	Price
S37281	10S UV-Vis Spectrophotometer Only	5110.00/Ea
S37282	10S UV-Vis Spectrophotometer with Printer	5570.00/Ea

## Fisher Scientific™ Educational Spectrophotometer

Precision, low-cost spectrophotometer designed especially for high schools.

Performs well in the analysis of chlorophyll, equilibrium determinations, Beer's Law studies, water analysis and chemical and biological fluids.

- Large digital readout for absorbance or transmittance
- Built-in second-order filters for greater precision
- Wavelength adjustment dial built to withstand heavy use

### Specifications:

- Wavelength Range: 400 to 1000nm
- Spectral Slit Width: 20nm
- Wavelength Accuracy:  $\pm 3$ nm
- Wavelength Reliability: 2nm
- Stray Radiant Energy: 2% at 400nm
- Photometric Range: 0%T to 100%T, 0A to 1.99A
- Photometric Accuracy:  $\pm 4$ %T
- Photometric Noise:  $\pm 1.0$ %
- L x W x H: 16 x 12 x 7 in. (40.6 x 30.5 x 17.8cm)



### INCLUDES:

Spectrophotometer, 12 Round cuvette; 0.5 in. round cuvet holder, 10mm square cuvet adapter, User's manual, Lab manual with five experiments

Cat. No.	Description	Price
S42669ND	Educational Spectrophotometer	1045.40/Ea

## Visible Spectrophotometer

Features built-in filters for easy operation

Economical spectrophotometer is designed for quick and easy use in the chemistry, biology, and any general-purpose laboratory. The continuous wavelength range of 335-1000nm and the push-button auto-zero function provide a broad working range. Features an analog output that can be used with the Fisher Scientific™ LogIT data acquisition system and a square, 10mm path length cuvet adapter with a 13mm test tube holder. Displays percent transmittance and absorbance on a large LCD readout. Included with the spectrophotometer are 12 test tubes, dust cover, and an experiment/operator's manual that contains 10 experiments for spectroscopy, chemistry, and biology.

### Specifications:

- Spectral slit width: 20nm
- Optical system: single-beam grating system, 1200 lines/mm
- Wavelength range: 335-1000nm (visible)
- Wavelength accuracy:  $\pm 2$ nm
- Repeatability:  $\pm 1$ nm
- Stray light:  $<0.5$ %T at 340 and 400nm
- Photometric Range: 0-125%T, 0-2A
- Photometer accuracy:  $\pm 2.0$ %T
- Light source: tungsten halogen lamp, 6V/10w
- Data output: analog
- For 110V



### ORDERING INFORMATION:

Dimensions/Weight:  
12 $\frac{1}{8}$  L x 16 $\frac{1}{8}$  W x 7 $\frac{1}{8}$  in.H, 14 $\frac{1}{2}$  lbs  
Electrical requirements: 115/230V  $\pm 10$ %, 60/50Hz, selectable

### INCLUDES:

Included with the spectrophotometer are 12 test tubes and a dust cover.

Cat. No.	Description	Price
S63166A	Visible Spectrophotometer	1184.05/Ea

## Spectrophotometer with Computer Interface

Designed for use in general chemistry, biochemistry, environmental chemistry, water testing, and other areas.

PRINT button sends the data to a computer for analysis.

NOTE: The advanced data acquisition software, S83182, is required to retrieve this data on your computer. Analog output allows a data acquisition system, such as Fisher's LogIT system, to retrieve data without the need for special software.

### Features

- 10nm spectral bandpass for better resolution
- Standard RS-232-C port
- Auto-zero button
- Concentration/factor (dilution) modes
- LCD to display absorbance, percent transmittance, and concentration
- 12 test tubes
- Dust cover

### Specifications

- Spectral slit width: 10nm
- Optical system: single-beam grating system, 1200 lines/mm
- Wavelength range: 335-1000nm (visible)
- Wavelength accuracy:  $\pm 2$ nm
- Repeatability:  $\pm 1$ nm
- Stray light:  $<0.5$ % T at 340 and 400nm
- Photometric range: 0 to 125% T, 0 to 2A, 0 to 1999°C (0-1999°F)
- Photometric accuracy:  $\pm 1.0$ %T
- Light source: tungsten halogen lamp, 6V/10w
- Data output: Analog and RS-232-C serial port



### ORDERING INFORMATION:

Dimensions: 12 $\frac{1}{8}$  L x 16 $\frac{1}{8}$  W x 7 $\frac{1}{8}$  in.H  
Weight: 14 $\frac{1}{2}$  lb.  
Electrical requirements: 115/230V  $\pm 10$ %, 60/50Hz selectable

Cat. No.	Description	Price
S83181	Spectrophotometer with Computer Interface	1881.65/Ea

## There are more reasons than ever to get your chemicals through the Fisher Science Education channel.

- User-Friendly Reference Guide
- Easy-to-Read Labels
- Industry Standard Storage Plan
- Comprehensive Online Resources

The Fisher Science Education brand is committed to providing you with comprehensive and reliable resources to use when selecting chemicals for your classroom. Each chemical listing includes the following information (where applicable):

### Classroom-Friendly Options

- Purity Grades for Every Application
  - Lab (or Educational) Grade — These economical chemicals are of reasonable purity for situations where no official standards for quality or impurity levels are required
  - Reagent Grade — The highest quality commercially available for this chemical; the American Chemical Society (ACS) has not officially set any specifications for this material
  - ACS Reagent Grade — Chemicals meet or exceed the latest ACS specifications; designed for analytical applications requiring tighter standards
- Quantities to Fit Your Requirements
  - Range of pack sizes, including smaller quantities to reduce cost and waste

### Label Key

- 1 Chemical Name
- 2 Synonym(s); Chemical Formula
- 3 Formula Weight
- 4 CAS Number
- 5 Color/Appearance
- 6 Solubility
- 7 Shelf Life
- 8 Department of Transportation (DOT) Classification
- 9 ChemAlert™ Storage Code
- 10 Chemical Grade
- 11 Catalog Number
- 12 Available Sizes
- 13 Price
- 14 Prop 65 Information

1	<b>Ammonium Dichromate</b>			
2	Ammonium Bichromate; $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$			
3	F.W. 252.06			
4	CAS: 7789-09-5			
5	Color: Orange to red			
6	Solubility in Water: Soluble			
7	Shelf Life: 1 year			
8	DOT Class 5.1, II: Oxidizer			
10	<b>LAB GRADE - CRYSTAL</b>			
11	S25169*	100g	9.50	9
	S25169A*	500g	25.25	
	S25169B*	2kg	101.00	
14	<p><small>*The California Safe Drinking Water and Toxic Enforcement Act of 1986 or Proposition 65 requires products sold in California to include warnings on any chemical or material known to cause cancer or birth defects or other reproductive harm. As of August 2018, Fisher Science Education will display Prop 65 warnings as required by law. For more information, visit <a href="http://p65warnings.ca.gov">p65warnings.ca.gov</a></small></p>			12 13

	* California - WARNING: Cancer <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
	** California - WARNING: Reproductive Harm <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
	*** California - WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>



# ChemAlert™ Safe Storage Plan



## STORAGE INFORMATION AT A GLANCE

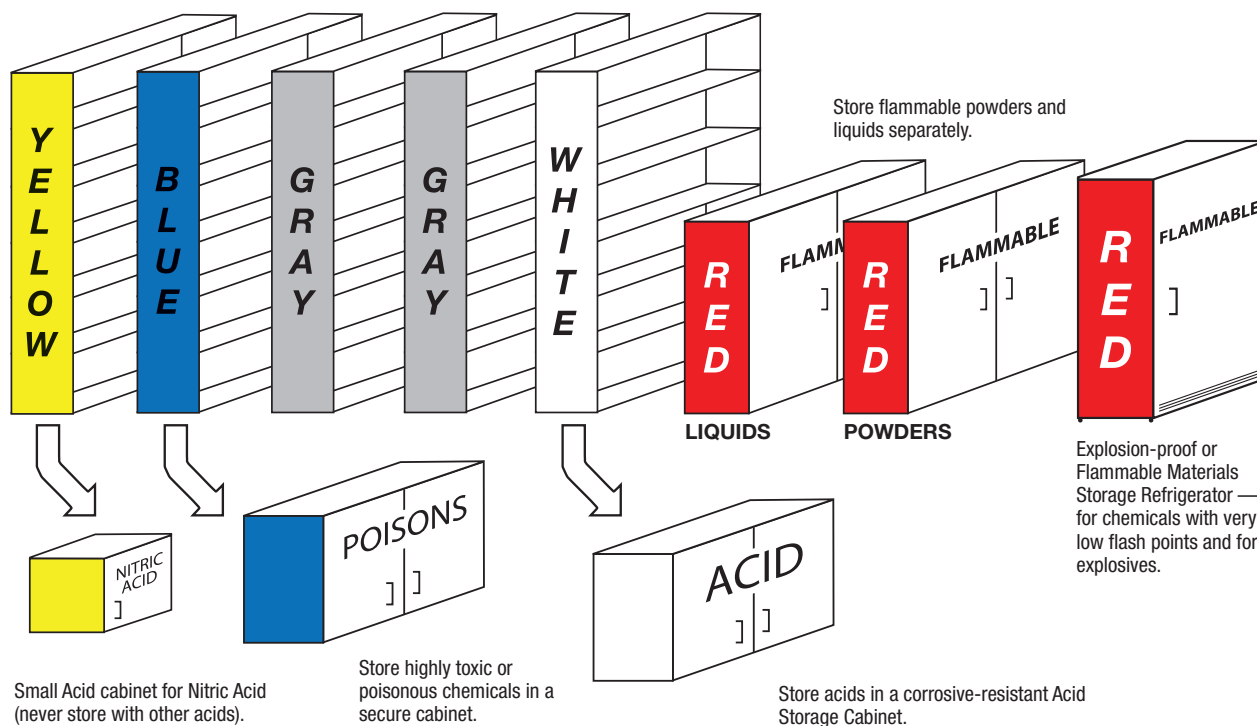
Every Fisher Science Education™ label features one of five color codes to suggest proper chemical storage.

	<b>Red — Flammable</b> Store in area segregated for flammable reagents.
	<b>Blue — Health Hazard</b> Toxic if inhaled, ingested or absorbed through skin; store in secure area.
	<b>Yellow — Reactive and Oxidizing</b> May react violently with air, water or other substances; store away from flammable and combustible materials.
	<b>White — Corrosive</b> May harm skin, eyes and mucous membranes; store away from red-, yellow- and blue-coded reagents. Store acids and bases separately.
	<b>Gray — Moderate Hazard</b> Presents no more than moderate danger in any of the hazards previously listed.

### IMPORTANT:

- Oxidizers (YELLOW) must be isolated from flammables (RED). It is recommended that all flammables be stored in a dedicated Flammables Storage Cabinet.
- If you store any highly toxic chemicals or severe poisons (BLUE), they should receive special security.
- Avoid any storage on floor or above eye level.
- Storage shelves should have a ¾ inch lip to help prevent spills.
- **Always lock your chemical storage room!**

Visit [fisheredu.com/chemicals](http://fisheredu.com/chemicals) for more safety information and additional resources for your lab.



NOTE: ChemAlert is an instant guide only. It should be supplemented by reading the rest of the label (which provides detailed instructions in the event of accidental exposure, spill or fire, and applicable OSHA, DOT and ANSI™ data), the appropriate Safety Data Sheet (SDS) and standard references.

## ChemAlert™ Guide

Beginning in June of 2015, the OSHA Globally Harmonized System of Classification and Labeling for Chemicals became the standard on all Fisher Science Education chemical bottles. This new labeling system provides users with a standardized, common approach to classifying chemicals, ensuring that students will find consistent information about the handling and safe use of hazardous chemicals from their first exposure in the classroom, through college and into their future careers.

**1** Ammonium Dichromate

Lab Grade  
CODE: S25169

Lot #: Expires: Size: 100g

**5** SIGNAL WORD: Danger

Proper Shipping Name: Ammonium Dichromate

UN Identification Number: UN1439

**7** NFPA

**12** HAZARD STATEMENT  
May irritate the respiratory system. Very toxic to aquatic life with long lasting effects. Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

**10** PRECAUTIONARY STATEMENT  
Keep only in original container. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container in accordance with local/regional/national/international regulations.

**14** WARNING: Cancer - www.P65Warnings.ca.gov

**13** CONTAINS:  
Ammonium Dichromate CAS# 7789-09-5

**9** Storage Code Yellow  
Flinn 148 - product does not originate from Flinn Scientific, Inc.

**11** QR code (SDS and INFO)

**8** GHS Pictograms: Health Hazard, Flame, Exclamation Mark, Gas Cylinder, Corrosion

Supplied By: Fisher Science Education, 6771 Silver Crest Road, Nazareth, PA 18064. Business Phone: 800 955-1177 Emergency Phone: 800-255-3924

S25169

### Label Key

- 1 Chemical Name
- 2 Catalog Number
- 3 Lot Number
- 4 Expiration Date
- 5 Signal Word
- 6 Proper Shipping Information
- 7 NFPA Information
- 8 GHS Pictograms
- 9 Storage Code
- 10 Flinn Compatible Chemical Family Code (used with permission of Flinn Scientific, Inc.)
- 11 QR code – links to chemical online resources
- 12 Safety Information
- 13 Contains
- 14 Prop 65 Information

### GHS Pictograms

Health Hazard	Flame	Exclamation Mark	Gas Cylinder	Corrosion
<ul style="list-style-type: none"> <li>Carcinogen</li> <li>Mutagenicity</li> <li>Reproductive Toxicity</li> <li>Respiratory Sensitizer</li> <li>Target Organ Toxicity</li> <li>Aspiration Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>Flammables</li> <li>Pyrophorics</li> <li>Self-Heating</li> <li>Emits Flammable Gas</li> <li>Self-Reactives</li> <li>Organic Peroxides</li> </ul>	<ul style="list-style-type: none"> <li>Irritant (skin and eye)</li> <li>Skin Sensitizer</li> <li>Acute Toxicity</li> <li>Narcotic Effects</li> <li>Respiratory Tract Irritant</li> <li>Hazardous to Ozone Layer (Non-Mandatory)</li> </ul>	<ul style="list-style-type: none"> <li>Gases Under Pressure</li> </ul>	<ul style="list-style-type: none"> <li>Skin Corrosion / Burns</li> <li>Eye Damage</li> <li>Corrosive to Metals</li> </ul>
<ul style="list-style-type: none"> <li>Explosives</li> <li>Self-Reactives</li> <li>Organic Peroxides</li> </ul>	<ul style="list-style-type: none"> <li>Oxidizers</li> </ul>	<ul style="list-style-type: none"> <li>Aquatic Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>Skull and Crossbones</li> <li>Acute Toxicity (fatal or toxic)</li> </ul>	

## ChemAlert™ Storage Codes

Indicate the recommended method of chemical storage.

Every Fisher Science Education™ label features one of the five following color codes to indicate storage needs.

- Red — Flammable**  
Store in area segregated for flammable reagents.
  
- Blue — Health Hazard**  
Toxic if inhaled, ingested or absorbed through skin; store in secure area.
  
- Yellow — Reactive and Oxidizing**  
May react violently with air, water or other substances; store away from flammable and combustible materials.
  
- White — Corrosive**  
May harm skin, eyes and mucous membranes; store away from red-, yellow- and blue-coded reagents. Store acids and bases separately.
  
- Gray — Moderate Hazard**  
Presents no more than moderate hazard in any of the hazards previously listed.




## Dot Classifications

The U.S. Department of Transportation (DOT) publishes transportation regulations covering shipments of materials classified as hazardous within the continental United States and its territories. These regulations, covering packaging, marking, labeling and shipping paper descriptions, are published in 49 CFR Parts 100-185. Materials are classified according to the system listed below.

DOT Hazard Class /Division	DOT Hazard Description
1	Explosives
2.1	Flammable Gas
2.2	Non-Flammable Gas
2.3	Poison Gas
3	Flammable Liquid
4.1	Flammable Solid
4.2	Spontaneously Combustible
4.3	Dangerous When Wet
5.1	Oxidizer
5.2	Organic Peroxide
6.1	Poison
6.2	Infectious Substance
7	Radioactive
8	Corrosive
9	Miscellaneous

## NFPA Hazard Code Ratings

The National Fire Protection Association has developed a numerical rating system that reflects the health, flammability, self-reactivity and other hazards of materials, including reactivity with water, as specified in NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response. Potential hazards are evaluated based on the degree of hazard, and the numerical rating is placed inside the universal NFPA symbol. (Included on all Fisher Science Education™ chemical labels.)

<b>NFPA Rating Explanation Guide</b>					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING SYMBOL	SPECIAL HAZARD
<b>4</b>	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
<b>3</b>	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
<b>2</b>	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	COR	Corrosive
<b>1</b>	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	OX	Oxidizing
<b>0</b>	No hazard	Will not burn	Stable		Radioactive
					Reacts violently or explosively with water
					Reacts violently or explosively with water and oxidizing

## Restrictions on Sale of Chemicals

Chemicals can be sold only to institutions, to full-time educators and to professionals, on purchase order or organization letterhead. We are not permitted to honor student orders.

A hazardous surcharge will be applied to chemicals that are designated hazardous by the U.S. Department of Transportation at the time of shipment. Certificates of analysis are NOT available for the chemicals featured in this catalog.

Fisher Science Education chemicals are intended to be used for **educational purposes** only.



**Acacia**

Gum Arabic

CAS: 9000-01-5

Color: White to Yellow

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

<b>SOLID</b>		
S25114	100g	12.50

**Acetaldehyde**Ethanal; CH<sub>3</sub>; CHO

F.W. 44.05

CAS: 75-07-0

Color: Clear

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 3, I: Flammable Liquid

Hazard: Toxic

FLAMMABLE

<b>LAB GRADE</b>		
S25115*	100mL	57.50

**Acetamide**Acetic Acid Amide; CH<sub>3</sub>CONH<sub>2</sub>

F.W. 59.06

CAS: 60-35-5

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

<b>CRYSTALS</b>		
S25116*	100g	15.00

**Acetanilide**N-Phenylacetamide; CH<sub>3</sub>CONHC<sub>6</sub>H<sub>5</sub>

F.W. 135.17

CAS: 103-84-4

Color: White

Solubility in Water: Slightly soluble

Shelf Life: 5 years

MODERATE HAZARD

<b>GLISTENING CRYSTALS</b>		
S25117A	50g	24.50
S25117	100g	36.25

**Acetic Acid Solution, 6M**

Color: Clear

Solubility in Water: Soluble in water

DOT Class 8, II: Corrosive

CORROSIVE

<b>6M</b>		
S25840B	1L	16.00

**Acetic Acid Solutions**

Color: Clear

Solubility in Water: Soluble in water

MODERATE HAZARD

<b>0.1M</b>		
S25840	1L	14.75
<b>1.0M</b>		
S25840A	1L	15.25

**Acetic Acid, Glacial**CH<sub>3</sub>CO<sub>2</sub>H

F.W. 60.05

CAS: 64-19-7

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 8 (3), II: Corrosive

FLAMMABLE

<b>ACS GRADE</b>		
S25118B	500mL	18.25
S25118	2.5L	62.75

<b>ACS GRADE, SAFE-COTE</b>		
S25118A	500mL	18.25

**Acetic Anhydride**Acetic Oxide; (CH<sub>3</sub>CO)<sub>2</sub>O

F.W. 102.09

CAS: 108-24-7

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 8 (3), II: Corrosive

FLAMMABLE

<b>LAB GRADE</b>		
S25119	100mL	10.75
<b>REAGENT GRADE</b>		
S25119A	500mL	30.75

**Acetone**2-Propanone; CH<sub>3</sub>COCH<sub>3</sub>

F.W. 58.08

CAS: 67-64-1

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

<b>ACS GRADE</b>		
S25120	500mL	14.75
S25120A	4L	34.50
<b>HISTOLOGY GRADE</b>		
S25904	4L	36.00
<b>REAGENT GRADE</b>		
S25120B	500mL	10.25
S25120C	20L	153.00

**Aceto-Orcein Solution, 2%**

Color: Violet

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, III: Corrosive

CORROSIVE

<b>2%</b>		
S25121	30mL	14.00
S25121A	100mL	36.75

**Acetylcholine Chloride Solution, 0.01%**

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

<b>0.01%</b>		
S25652	100mL	8.55

**Acetylsalicylic Acid**Aspirin; 2-(CH<sub>3</sub>CO)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H

F.W. 180.16

CAS: 50-78-2

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 6.1, III: Poison

HEALTH HAZARD

<b>LAB GRADE</b>		
S25122**	100g	11.00

**Adenosine Triphosphate (ATP)**ATP; C<sub>10</sub>H<sub>14</sub>N<sub>5</sub>O<sub>13</sub>P<sub>3</sub>Na<sub>2</sub>·3H<sub>2</sub>O

F.W. 551.18

CAS: 987-65-5

Color: White solid

Shelf Life: 5 years

MODERATE HAZARD

<b>SOLID</b>		
S25123	1g	28.00

**Adipic Acid**1,4-Butanedicarboxylic Acid; HO<sub>2</sub>C(CH<sub>2</sub>)<sub>4</sub>CO<sub>2</sub>H

F.W. 146.14

CAS: 124-04-9

Color: White powder

Solubility in Water: Insoluble

Shelf Life: 2 years

MODERATE HAZARD

<b>POWDER</b>		
S25124	500g	13.25

**Adipoyl Chloride, Hexane Solution**

Dipryl

Color: Clear, colorless

Solubility in Water: Insoluble

Shelf Life: One year

DOT Class 3 (8), II: Flammable Liquid

FLAMMABLE

<b>SOLUTION</b>		
S25125	100mL	21.00
S25125A	250mL	42.00

**L-Adrenaline Solution, 0.01%**Epinephrine; C<sub>9</sub>H<sub>13</sub>NO<sub>3</sub>

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 18 months

MODERATE HAZARD

<b>0.1%</b>		
S25126	100mL	9.65

**Agar, Bacteriological**

Gelose

CAS: 9002-18-0

Color: Light beige

Solubility in Water: Soluble in hot water

Shelf Life: 2 years

MODERATE HAZARD

<b>SOLID</b>		
S25127	100g	20.75
S25127A	500g	62.50

Chemicals are educational grade and are intended for teaching use only.  
Not approved for clinical use.

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### Agarose

Powder  
**CAS:** 9012-36-6  
**Color:** Yellow-brown to orange-yellow  
**Shelf Life:** 2 years

MODERATE HAZARD

POWDER		
S25128A	5g	22.00
S25128	25g	54.50

### Agarose Solution

Liquid  
**Color:** Clear, colorless  
**Solubility in Water:** Complete  
**Shelf Life:** 2 years

MODERATE HAZARD

0.80%		
S25129	200mL	21.25
2%		
S25130	200mL	19.00

### DL-Alanine

D-2-Aminopropionic Acid;  $\text{CH}_3\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$   
**F.W.** 89.09  
**CAS:** 302-72-7  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

SOLID		
S25648	50g	23.50

### L-Alanine

(S)-Alanine;  $\text{CH}_3\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$   
**F.W.** 89.09  
**CAS:** 56-41-7  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

SOLID		
S25647	5g	30.50

### Albumin, from Eggs

Egg Albumin  
**CAS:** 9006-59-1  
**Color:** Yellow  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 1 year

MODERATE HAZARD

REAGENT GRADE		
S25132	25g	8.55
S25132A	100g	14.50
S25132B	500g	52.50

### Alizarin Red S

Mordant Red 3;  $\text{C}_{14}\text{H}_7\text{NaO}_7\text{S}$   
**F.W.** 342.26  
**CAS:** 130-22-3  
**Color:** pH 4.6 (Yellow); pH 6.0 (Red)  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

SOLID		
S25131	25g	15.25

### Alizarin Yellow R, Indicator Solution

**Color:** Clear, yellow  
**Solubility in Water:** Infinite  
**Shelf Life:** 18 months

MODERATE HAZARD

0.1%		
S25134A	100mL	7.90
S25134	500mL	17.75

### Alizarin Yellow R, Sodium Salt

Mordant Orange 1;  $\text{C}_{13}\text{H}_8\text{N}_3\text{O}_5\text{Na}$   
**CAS:** 1718-34-9  
**Color:** Brown yellow, Red brown or Brown  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

SOLID		
S25133	5g	9.60
S25133A	10g	12.00

### Aluminon

Aurin Tricarboxylic Acid;  $\text{C}_{22}\text{H}_{23}\text{N}_3\text{O}_9$   
**F.W.** 473.44  
**CAS:** 569-58-4  
**Color:** Red-brown  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

REAGENT GRADE		
S25140	5g	20.00
S25140A	25g	63.25

### Aluminum Ammonium Sulfate, Dodecahydrate

Ammonium Alum;  $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$   
**F.W.** 453.32  
**CAS:** 7784-26-1  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

REAGENT GRADE		
S25142	100g	6.80
S25142A	500g	19.00

### Aluminum Chloride, Hexahydrate

Trichloraluminum Hexahydrate;  $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$   
**F.W.** 241.43  
**CAS:** 7784-13-6  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year  
**DOT Class 8, II:** Corrosive  
 Reacts strongly with water

CORROSIVE

REAGENT GRADE		
S25143	100g	12.00
S25143A	500g	25.00

### Aluminum Hydroxide

Aluminum (III) Hydroxide;  $\text{Al}(\text{OH})_3 \cdot \text{XH}_2\text{O}$   
**F.W.** 78.00  
**CAS:** 21645-51-2  
**Color:** White  
**Solubility in Water:** Insoluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

LAB GRADE		
S25147	100g	9.50
S25147A	500g	19.75

### Aluminum Metal

Al  
**F.W.** 26.98  
**CAS:** 7429-90-5  
**Color:** Silver-gray  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years  
 Reacts with water or moisture

MODERATE HAZARD

LAB GRADE - GRANULAR, 10 TO 30 MESH		
S25141	100g	15.50
S25141A	500g	44.25
LAB GRADE - METAL STRIPS		
S25146	30/Pk	16.00
REAGENT GRADE - PELLETS, 2 TO 5 MESH		
S25150	500g	17.75
REAGENT GRADE - SHEETS, 12 x 12 x 0.03"		
S25145	Ea.	31.75

### Aluminum Nitrate, Nonahydrate

Nitric Acid Aluminum Salt;  $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$   
**F.W.** 375.13  
**CAS:** 7784-27-2  
**Color:** Colorless to white  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**DOT Class 5.1, III:** Oxidizer

REACTIVE & OXIDIZING

REAGENT GRADE		
S25148	100g	9.40
S25148A	500g	34.75

### Aluminum Oxide, Anhydrous

Alumina;  $\text{Al}_2\text{O}_3$   
**F.W.** 101.96  
**CAS:** 1344-28-1  
**Color:** White  
**Solubility in Water:** Insoluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

LAB GRADE - POWDER		
S25149	100g	13.00
S25149A	500g	19.50

**Aluminum Potassium Sulfate, Dodecahydrate**Alum;  $\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ 

F.W. 474.3558

CAS: 7784-24-9

Color: White

Solubility in Water: Partially Soluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE - POWDER**

S25152	30g	5.35
S25152D	500g	9.65
S25152C	2kg	27.75

**REAGENT GRADE - POWDER**

S25152B	500g	19.50
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**Aluminum Sodium Sulfate, Dodecahydrate** $\text{AlNa}(\text{SO}_4)_2$ 

F.W. 458.29

CAS: 10102-71-3

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE - CRYSTALS**

S25136	500g	14.75
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**Aluminum Sulfate Solution, 0.1M**

Color: Clear

Solubility in Water: Infinite

MODERATE HAZARD

0.1M

S25841	500mL	12.00
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**Aluminum Sulfate, Hydrate** $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$ 

F.W. 666.42

CAS: 7784-31-8

Color: Solid

Solubility in Water: Infinite

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

S25137	500g	10.50
S25137A	2kg	24.75

**Aluminum, Powder**

Al

F.W. 26.98

CAS: 7429-90-5

Color: Silver to gray

Solubility in Water: Insoluble

Shelf Life: 2 years

Reacts with water or moisture

FLAMMABLE

**REAGENT GRADE - POWDER**

S25144	100g	15.50
S25144A	500g	37.50

**Ammonia Solution**

Ammonium hydrate

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLUTION**

S25164	500mL	8.55
S25164A	1L	8.15
S25164B	1 gal.	12.00

**Ammonium Acetate**Acetic Acid, Ammonium Salt;  $\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ 

F.W. 77.08

CAS: 631-61-8

Color: White

Solubility in Water: Soluble in cold water

Shelf Life: 2 years

MODERATE HAZARD

**REAGENT GRADE**

S25165*	500g	28.00
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**Ammonium Carbonate** $(\text{NH}_4)_2\text{CO}_3$ 

F.W. 96.07

CAS: 506-87-6

Color: Colorless/White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE - CHIPS**

S25166	100g	11.50
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**LAB GRADE - LUMPS**

S25166A	500g	27.00
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**LAB GRADE - POWDER**

S25167	500g	17.50
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**Ammonium Chloride**Sal Ammoniac;  $\text{NH}_4\text{Cl}$ 

F.W. 53.49

CAS: 12125-02-9

Color: White

Solubility in Water: Partly Soluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

S25168B	500g	8.20
S25168C	2kg	21.25

**REAGENT GRADE**

S25168	100g	6.80
S25168A	500g	14.00

**Ammonium Chloride Solution, 1M**

Color: Clear

Solubility in Water: Infinite

MODERATE HAZARD

1M

S25842	500mL	8.40
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**Ammonium Dichromate**Ammonium Bichromate;  $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ 

F.W. 252.06

CAS: 7789-09-5

Color: Orange to red

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, II: Oxidizer

REACTIVE &amp; OXIDIZING

**LAB GRADE - CRYSTAL**

S25169*	100g	9.60
S25169A*	500g	25.75
S25169B*	2kg	55.25

**Ammonium Hydroxide Solution, 1M**Ammonium Hydrate;  $\text{NH}_4\text{OH}$ 

F.W. 35.04

CAS: 1336-21-6

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 5 years

DOT Class 8, III: Corrosive

CORROSIVE

**REAGENT GRADE**

S25159A	2.5L	46.75
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**REAGENT GRADE - SAFE-COTE**

S25159	500mL	14.75
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**Ammonium Hydroxide Solution, 0.1M**

Color: Clear

Solubility in Water: Infinite

MODERATE HAZARD

0.1M

S25843	1L	12.50
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**Ammonium Hydroxide Solution, 1M**Ammonium Hydrate;  $\text{NH}_4\text{OH}$ 

F.W. 35.04

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 2 years

DOT Class 8, III: Corrosive

CORROSIVE

1M

S25170	500mL	7.65
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**Ammonium Hydroxide Solution, 3M**

Color: Clear

Solubility in Water: Infinite

DOT Class 8, III: Corrosive

CORROSIVE

3M

S25844	500mL	7.65
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Not approved for clinical use.





### Ammonium Molybdate, Tetrahydrate

Ammonium Heptamolybdate Tetrahydrate;  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$   
**F.W.** 1235.86  
**CAS:** 12027-67-7  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

#### ACS GRADE

**S25171** 100g 31.25

### Ammonium Nitrate

Nitric Acid Ammonium Salt;  $\text{NH}_4\text{NO}_3$   
**F.W.** 80.04  
**CAS:** 6484-52-2  
**Color:** White  
**Shelf Life:** 2 years  
**DOT Class 5.1, III:** Oxidizer  
 Explosive under high temperatures

REACTIVE & OXIDIZING

#### ACS GRADE

**S25172** 500g 22.00

#### LAB GRADE

**S25173** 100g 7.50  
**S25160** 500g 12.25

### Ammonium Oxalate, Monohydrate

Oxalic Acid;  $(\text{NH}_4)_2\text{C}_2\text{O}_4\cdot\text{H}_2\text{O}$   
**F.W.** 142.11  
**CAS:** 6009-70-7  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**DOT Class 6.1, III:** Poison

HEALTH HAZARD

#### LAB GRADE - CRYSTAL

**S25174** 100g 16.00  
**S25174A** 500g 41.50

### Ammonium Persulfate

Ammonium Peroxydisulfate;  $(\text{NH}_4)_2\text{S}_2\text{O}_8$   
**F.W.** 228.19  
**CAS:** 7727-54-0  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years  
**DOT Class 5.1, III:** Oxidizer

REACTIVE & OXIDIZING

#### POWDER

**S25178** 100g 9.20

### Ammonium Phosphate, Dibasic

Diammonium Hydrogen Phosphate;  $(\text{NH}_4)_2\text{HPO}_4$   
**F.W.** 132.06  
**CAS:** 7783-28-0  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

#### REAGENT GRADE

**S25175A** 100g 9.00  
**S25175** 500g 22.50

### Ammonium Phosphate, Monobasic

Ammonium dihydrogen phosphate;  $\text{NH}_4\text{H}_2\text{PO}_4$   
**F.W.** 115.03  
**CAS:** 7722-76-1  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

#### LAB GRADE - POWDER

**S25153** 100g 8.75  
**S25153A** 500g 23.75

### Ammonium Sulfate

Diammonium Sulfate;  $(\text{NH}_4)_2\text{SO}_4$   
**F.W.** 132.14  
**CAS:** 7783-20-2  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

#### REAGENT GRADE

**S25176** 100g 6.40  
**S25176A** 500g 14.25

### Ammonium Thiocyanate

Ammonium Sulfocyanate;  $\text{NH}_4\text{SCN}$   
**F.W.** 76.12  
**CAS:** 1762-95-4  
**Color:** White  
**Solubility in Water:** Freely soluble  
**Shelf Life:** 5 years  
**DOT Class 9, III:** Miscellaneous

HEALTH HAZARD

#### LAB GRADE - CRYSTALLINE POWDER

**S25158** 500g 34.00

#### REAGENT GRADE - CRYSTALLINE POWDER

**S25177** 100g 12.75  
**S25154** 500g 34.00

### n-Amyl Alcohol

n-Pentanol;  $\text{CH}_3(\text{CH}_2)_4\text{OH}$   
**F.W.** 88.15  
**CAS:** 71-41-0  
**Color:** Clear, colorless  
**Solubility in Water:** Slightly soluble  
**Shelf Life:** 5 years  
**DOT Class 3, III:** Flammable Liquid

FLAMMABLE

#### SOLUTION

**S25181** 500mL 23.25

### $\alpha$ -Amylase

alpha-Amylase  
**CAS:** 9000-90-2  
**Color:** White-yellow  
**Shelf Life:** 5 years

MODERATE HAZARD

**S25135A** 5g 9.70  
**S25135B** 10g 15.75  
**S25135** 25g 20.00

### Aniline

$\text{C}_6\text{H}_5\text{NH}_2$   
**F.W.** 93.13  
**CAS:** 62-53-3  
**Color:** Light yellow  
**Solubility in Water:** Slightly  
**Shelf Life:** One year  
**DOT Class 6.1, II:** Poison

HEALTH HAZARD

#### SOLUTION

**S25179\*** 100mL 23.75

### Antacid, Effervescent

**CAS:** 471-34-1  
**Shelf Life:** 2 years

MODERATE HAZARD

#### TABLET

**S25180** 24 Pk 17.50

### Antimony

Stibium; Sb  
**F.W.** 121.75  
**CAS:** 7440-36-0  
**Color:** Silver white  
**Solubility in Water:** Insoluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

#### SOLID

**S25182** 25g 9.20

### Antimony, Trichloride

Antimony (III) Chloride;  $\text{SbCl}_3$   
**F.W.** 228.11  
**CAS:** 10025-91-9  
**Color:** Colorless  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year  
**DOT Class 8, II:** Corrosive

CORROSIVE

#### CRYSTALS

**S25183** 100g 12.75

### D-Arabinose

$\text{C}_5\text{H}_{10}\text{O}_5$   
**F.W.** 150.13  
**CAS:** 28697-53-2  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

#### SOLID

**S25650** 25g 103.00

### L-Arabinose

$\text{C}_5\text{H}_{10}\text{O}_5$   
**F.W.** 150.13  
**CAS:** 5328-37-0  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

#### POWDER

**S25651** 25g 151.00

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 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm -[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**L-Arginine**Arginine; C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub>

F.W. 174.12

CAS: 74-79-3

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

**POWDER**

S25656	5g	15.25
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MODERATE HAZARD

**Ascorbic Acid**L-Ascorbic Acid; C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>

F.W. 176.13

CAS: 50-81-7

Color: White to yellow

Solubility in Water: Soluble

Shelf Life: 2 years

**REAGENT GRADE - POWDER CRYSTALS**

S25184	100g	15.25
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MODERATE HAZARD

**L-Asparagine**Aspartic Acid; C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>·H<sub>2</sub>O

F.W. 150.14

CAS: 5794-13-8

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

**POWDER**

S25653	25g	26.00
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MODERATE HAZARD

**L-Aspartic Acid**Aspartic Acid; C<sub>4</sub>H<sub>7</sub>NO<sub>4</sub>

F.W. 133.05

CAS: 56-84-8

Color: Colorless to White

Solubility in Water: Slightly soluble

Shelf Life: 5 years

**SOLID**

S25649	100g	34.00
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MODERATE HAZARD

**Baking Powder**

Color: White

Shelf Life: 5 years

**POWDER**

S25185	100g	5.15
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MODERATE HAZARD

**Barium Carbonate**Barium Dichloride; BaCO<sub>3</sub>

F.W. 197.37

CAS: 513-77-9

Color: White

Solubility in Water: Water insoluble

Shelf Life: 5 years

DOT Class 6.1, III: *Poison***POWDER**

S25186	100g	22.25
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HEALTH HAZARD

**Barium Chloride, Dihydrate**Barium Dichloride; BaCl<sub>2</sub>·2H<sub>2</sub>O

F.W. 244.28

CAS: 10326-27-9

Color: White

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 6.1, III: *Poison***REAGENT GRADE**

S25187	500g	25.75
S25187A	2kg	61.25

HEALTH HAZARD

**Barium Hydroxide, Octahydrate**Ba(OH)<sub>2</sub>·8H<sub>2</sub>O

F.W. 315.48

CAS: 12230-71-6

Color: White

Shelf Life: One year

DOT Class 8, III: *Corrosive***LAB GRADE**

S25189	500g	29.00
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**REAGENT GRADE**

S25188	100g	12.25
S25188A	500g	29.00

CORROSIVE

**Barium Nitrate**Barium Dinirate; Ba(NO<sub>3</sub>)<sub>2</sub>

F.W. 261.34

CAS: 10022-31-8

Color: White

Solubility in Water: Moderate

Shelf Life: 5 years

DOT Class 5.1, II: *Oxidizer***LAB GRADE**

S25190A	500g	13.50
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**REAGENT GRADE**

S25190	100g	8.15
S25190B	500g	21.25

REACTIVE &amp; OXIDIZING

**Barium Nitrate Solution, 0.1M**

Color: Clear

Solubility in Water: Soluble in water

**0.1M**

S25845	500mL	6.75
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MODERATE HAZARD

**Barium Sulfate**Artificial Barite; BaSO<sub>4</sub>

F.W. 233.40

CAS: 7727-43-7

Color: White to yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

**LAB GRADE**

S25191	100g	7.50
S25191A	500g	16.25

MODERATE HAZARD

**Basic 10 Stain Kit**

Aqueous; Contains set of 10 stains, 30mL each

**PLASTIC BOTTLES**

S25575	1 kit: 10	87.00
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**Beef Extract**

CAS: 68990-09-0

Color: Brown/black

Solubility in Water: Soluble

Shelf Life: 2 years

**POWDER**

S25661	25g	14.25
S25661A	100g	30.00

MODERATE HAZARD

**Beeswax**

CAS: 8012-89-3

Color: White to yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

**SOLID**

S25192	100g	14.00
S25192A	500g	30.75

MODERATE HAZARD

**Benedict's Solution, Qualitative**

Color: Clear blue

Shelf Life: 2 years

**SOLUTION**

S25193	500mL	6.60
S25193A	1L	12.00
S25193B	3.8L	38.75

MODERATE HAZARD

**Benedict's Solution, Quantitative**

Color: Clear

Solubility in Water: Completely soluble

Shelf Life: 2 years

**SOLUTION**

S25194	1L	22.00
S25194A	3.8L	50.75

MODERATE HAZARD

**Benzoic Acid**Benzenemethanoic Acid; C<sub>6</sub>H<sub>5</sub>COOH

F.W. 122.12

CAS: 65-85-0

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

**LAB GRADE - POWDER**

S25195	500g	17.25
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MODERATE HAZARD

**Benzoin**Desyl Alcohol; C<sub>6</sub>H<sub>5</sub>CH(OH)COC<sub>6</sub>H<sub>5</sub>

F.W. 212.25

CAS: 579-44-2

Color: Light Yellow

Solubility in Water: Slightly soluble in water

Shelf Life: 5 years

**POWDER**

S25667	10g	14.50
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MODERATE HAZARD

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Not approved for clinical use.

### Benzophenone

Diphenyl Ketone; (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>CO

F.W. 182.22

CAS: 119-61-9

Color: White

Solubility in Water: Insoluble in water

Shelf Life: 2 years

DOT Class 9, III: *Miscellaneous*

SOLID		
S25664*	10g	10.75
S25664B*	100g	23.25

HEALTH HAZARD

### Benzoyl Peroxide

Benzoic Acid Peroxide; (C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>O<sub>2</sub>

F.W. 242.23

CAS: 94-36-0

Color: White

Solubility in Water: Slightly in water

Shelf Life: 2 years

DOT Class 5.2, II: *Organic Peroxide*

POWDER		
S25672	25g	28.25

REACTIVE & OXIDIZING

### Benzyl Alcohol

Benzenemethanol; C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH

F.W. 108.14

CAS: 100-51-6

Color: Clear Colorless

Solubility in Water: Slightly soluble

Shelf Life: 2 years

SOLUTION		
S25666	100mL	16.75
S25666A	500mL	56.50

MODERATE HAZARD

### Bile Salts

Ox Bile

Color: Yellow-green

Solubility in Water: Soluble in water

Shelf Life: 2 years

SOLID		
S25196	25g	13.50

MODERATE HAZARD

### Bismark Brown Y

Basic Brown 1

F.W. 419.32

CAS: 10114-58-6

Color: Light brown to brown

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25671	10g	24.75

MODERATE HAZARD

### Bismuth

Bi

F.W. 208.98

CAS: 7440-69-9

Color: Silver/white or red

Solubility in Water: Insoluble in water

Shelf Life: 5 years

SOLID		
S25197	25g	25.50
S25197A	100g	29.25

MODERATE HAZARD

### Bismuth Nitrate

Bismuth (III) Nitrate, Pentahydrate; Bi(NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O

F.W. 485.11

CAS: 10035-06-0

Color: White

Shelf Life: One year

DOT Class 5.1, II: *Oxidizer*

LAB GRADE - CRYSTALS		
S25198A	25g	25.50
S25198B	100g	47.25

REACTIVE & OXIDIZING

### Biuret

Imidodicarbonic Diamide; NH<sub>2</sub>CONHCONH<sub>2</sub>

F.W. 103.08

CAS: 108-19-0

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

SOLID		
S25199	50g	12.25

MODERATE HAZARD

### Biuret Reagent

Color: Clear blue

Solubility in Water: Infinite

Shelf Life: 2 years

DOT Class 8, III: *Corrosive*

For protein test

SOLUTION		
S25200	100mL	4.70
S25200A	500mL	7.40
S25200B	1L	11.00

CORROSIVE

### Boiling Chips, Marble

Limestone

F.W. 100.09

CAS: 471-34-1

Color: Gray to tan

Solubility in Water: Insoluble

Shelf Life: 5 years

SOLID		
S25201	100g	4.45
S25201A	500g	6.40
S25201C	2kg	12.25

MODERATE HAZARD

### Boric Acid

Boracic Acid; H<sub>3</sub>BO<sub>3</sub>

F.W. 61.83

CAS: 10043-35-3

Color: White

Solubility in Water: Partly soluble in water

Shelf Life: 5 years

LAB GRADE		
S25202	100g	12.75
REAGENT GRADE		
S25202A	100g	8.10
S25202B	500g	19.50

MODERATE HAZARD

### Brass

Brass Alloy

Color: Red/gold metallic

Solubility in Water: Negligible

Shelf Life: 5 years

SHEET - 30 GAUGE		
S25660	Ea.	55.75

MODERATE HAZARD

### Brass Shot

Color: Yellowish

Shelf Life: 5 years

METAL		
S25663	100g	15.75

MODERATE HAZARD

### Brewer's Yeast

CAS: 68876-77-7

Color: Yellow-white to yellow-orange

Solubility in Water: 20% in water

Shelf Life: 2 years

SOLID		
S25631	100g	20.25

MODERATE HAZARD

### Brilliant Cresyl Blue

F.W. 400.97

CAS: 81029-05-2

Color: Dark blue

Shelf Life: 5 years

POWDER		
S25669	1g	25.50

MODERATE HAZARD

### Brilliant Cresyl Blue Staining Solution

Brilliant Blue G

Color: Clear blue

Solubility in Water: Soluble

Shelf Life: 18 months

SOLUTION		
S25668	100mL	25.00

MODERATE HAZARD

### Brilliant Green

Malachite Green G

F.W. 482.64

CAS: 633-03-4

Color: Green

Solubility in Water: Moderately soluble in water

Shelf Life: 5 years

SOLID		
S25670	10g	19.00

MODERATE HAZARD

### Bromcresol Green Solution

BCG

Color: Green

Solubility in Water: Infinite

Shelf Life: 18 months

0.04% W/V SOLUTION		
S25846	100mL	6.30
S25205	500mL	16.25

MODERATE HAZARD



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm -[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**Bromocresol Purple Indicator Solution, 0.04%**

**Color:** Red  
**Solubility in Water:** Infinite  
**Shelf Life:** 18 months

MODERATE HAZARD

0.04%		
S25847	100mL	6.05

**Bromine Water**

**Color:** Clear, orange  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**DOT Class 8(6.1), I: Corrosive**

CORROSIVE

<b>SOLUTION</b>		
S25203	500mL	98.00

**Bromobenzene**

Bromobenzol; C<sub>6</sub>H<sub>5</sub>Br

**F.W.** 157.01  
**CAS:** 108-86-1  
**Color:** Clear Colorless  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years  
**DOT Class 3, III: Flammable Liquid**

FLAMMABLE

<b>SOLUTION</b>		
S25665	50mL	22.25
S25665A	100mL	41.25

**Bromocresol Green**

BCG; C<sub>21</sub>H<sub>13</sub>Br<sub>4</sub>NaO<sub>5</sub>S

**F.W.** 720.00  
**CAS:** 62625-32-5  
**Color:** Brown

MODERATE HAZARD

**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

<b>SOLID</b>		
S25204	5g	36.75

**Bromoform**

Methyl Tribromide; CHBr<sub>3</sub>

**F.W.** 252.73  
**CAS:** 75-25-2  
**Color:** Clear Colorless  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years  
**DOT Class 6.1, III: Poison**

HEALTH HAZARD

<b>SOLUTION</b>		
S25659*	25g	45.75

**Bromothymol Blue Solution, 0.04%**

**Color:** Dark Green  
**Solubility in Water:** Infinite  
**Shelf Life:** 18 months

MODERATE HAZARD

0.04%		
S25207	10mL	4.85
S25207A	100mL	5.35
S25207B	500mL	7.15
S25207C	1L	8.40

**Bromothymol Blue, Sodium Salt**

C<sub>27</sub>H<sub>27</sub>Br<sub>2</sub>O<sub>5</sub>Na

**F.W.** 646.04  
**CAS:** 34722-90-2

MODERATE HAZARD

**Color:** Orange to black  
**Solubility in Water:** Infinite  
**Shelf Life:** 5 years

<b>REAGENT GRADE</b>		
S25206	5g	22.75
S25206A	10g	27.50

**Bromphenol Blue Indicator Solution, 0.04%**

**Color:** Dark Red-Purple  
**Solubility in Water:** Infinite

MODERATE HAZARD

0.04%		
S25848	100mL	3.85

**1-Butanol**

N-Butyl Alcohol; CH<sub>3</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OH

**F.W.** 74.12  
**CAS:** 71-36-3

FLAMMABLE

**Color:** Clear, colorless  
**Solubility in Water:** Moderate  
**Shelf Life:** 2 years  
**DOT Class 3, III: Flammable Liquid**

<b>REAGENT GRADE</b>		
S25209	100mL	10.00
S25209A	500mL	17.25
S25209B	4L	66.50

**tert-Butanol**

2-Methyl-2-Propanol; (CH<sub>3</sub>)<sub>3</sub>COH

**F.W.** 74.12  
**CAS:** 75-65-0

FLAMMABLE

**Color:** Clear, Colorless  
**Shelf Life:** 2 years  
**DOT Class 3, II: Flammable Liquid**

<b>LIQUID</b>		
S25210A	100mL	9.35
S25210B	500mL	24.00

**Sec-Butyl Alcohol**

2-Butanol; CH<sub>3</sub>CHOHCH<sub>2</sub>CH<sub>3</sub>

**F.W.** 74.12  
**CAS:** 78-92-2

FLAMMABLE

**Color:** Clear, colorless  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years  
**DOT Class 3, III: Flammable Liquid**

<b>SOLUTION</b>		
S25662	100mL	11.00
S25662A	500mL	16.25

**Butylated Hydroxy Toluene**

BHT; ((CH<sub>3</sub>)<sub>3</sub>C)<sub>2</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH

**F.W.** 220.35  
**CAS:** 128-37-0

HEALTH HAZARD

**Color:** White to semi-transparent  
**Solubility in Water:** Insoluble in water  
**Shelf Life:** 2 years  
**DOT Class 9, III: Miscellaneous**

<b>GRANULES</b>		
S25212A	100g	15.00
S25212	500g	30.00

**Butyric Acid**

N-Butanoic Acid; CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COOH

**F.W.** 88.11  
**CAS:** 107-92-6

CORROSIVE

**Color:** Clear, colorless  
**Solubility in Water:** Miscible with almost all common organics  
**Shelf Life:** 5 years  
**DOT Class 8, III: Corrosive**

<b>LAB GRADE</b>		
S25211	100mL	19.25
S25211A	500mL	40.25

**Cadmium Metal**

Cd

**F.W.** 112.40  
**CAS:** 7440-43-9

HEALTH HAZARD

**Color:** Silver white  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years  
**DOT Class 6.1, I: Poison**

<b>SOLID</b>		
S25213***	100g	11.00

**Cadmium Nitrate, Tetrahydrate**

Cd(NO<sub>3</sub>)<sub>2</sub>·4H<sub>2</sub>O

**F.W.** 308.49  
**CAS:** 10022-68-1

REACTIVE &amp; OXIDIZING

**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**DOT Class 5.1, II: Oxidizer**

<b>SOLID</b>		
S25214***	25g	28.00
S25214A***	100g	20.00
S25214B***	500g	89.00

**Caffeine**

Alkaloid; C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>

**F.W.** 194.19  
**CAS:** 58-08-2

HEALTH HAZARD

**Color:** White  
**Solubility in Water:** Slightly soluble in water  
**Shelf Life:** 2 years  
**DOT Class 6.1, III: Poison**

<b>LAB GRADE</b>		
S25215	25g	11.00
S25215A	100g	28.50

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\* California - WARNING: Cancer www.P65Warnings.ca.gov

\*\* California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

\*\*\* California - WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

## Calcium

Calciat; Ca

F.W. 40.08

CAS: 7440-70-2

Color: Silver white

**Solubility in Water:** Reacts with water

**Shelf Life:** 2 years

**DOT Class 4.3, II:** *Dangerous When Wet*

Reacts with water or moisture

### REAGENT GRADE - GRANULAR

S25216	25g	16.00
S25216A	500g	77.00

### REAGENT GRADE - TURNINGS

S25217	25g	16.75
S25217A	100g	22.00
S25217B	500g	70.00

## Calcium Acetate, Monohydrate

Calcium Ethanoate;  $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot \text{H}_2\text{O}$

F.W. 176.13

CAS: 5743-26-0

Color: White

**Solubility in Water:** Soluble

**Shelf Life:** 1 year

### LAB GRADE

S25218	100g	7.05
S25218A	500g	15.25

## Calcium Carbide

$\text{CaC}_2$

F.W. 64.08

CAS: 75-20-7

Color: Black-gray

**Solubility in Water:** Insoluble

**Shelf Life:** 1 year

**DOT Class 4.3, II:** *Dangerous When Wet*

Reacts with water or moisture

### LAB GRADE

S25219	100g	9.90
S25219A	500g	18.25

## Calcium Carbonate

$\text{CaCO}_3$

F.W. 100.09

CAS: 471-34-1

Color: White

**Solubility in Water:** Slightly

**Shelf Life:** 5 years

### NATURAL CHALK - SOLID

S25220B	500g	10.25
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### REAGENT GRADE - SOLID

S25220	100g	7.50
S25220A	500g	11.00
S25220C	2.5kg	22.75

## Calcium Chloride, Anhydrous

Dowflake;  $\text{CaCl}_2$

F.W. 110.99

CAS: 10043-52-4

Color: Beige

**Solubility in Water:** Soluble in water

**Shelf Life:** 1 year

### SOLID

S25223	500g	7.65
S25223A	2kg	17.25

## Calcium Chloride, Dihydrate

$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$

F.W. 147.02

CAS: 10035-04-8

Color: White

**Solubility in Water:** Soluble

**Shelf Life:** 1 year

### LAB GRADE - FLAKES

S25221	100g	4.05
S25221A	500g	5.95

### LAB GRADE - POWDER

S25222	100g	8.80
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### REAGENT GRADE

S25222A	500g	21.50
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## Calcium Hydroxide

Slaked lime;  $\text{Ca}(\text{OH})_2$

F.W. 74.09

CAS: 1305-62-0

Color: Off-white

**Solubility in Water:** Slightly soluble

**Shelf Life:** 1 year

**DOT Class 8, III:** *Corrosive*

### LAB GRADE

S25225	500g	9.85
S25225A	1.5kg	17.75

### REAGENT GRADE

S25224	500g	15.75
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## Calcium Nitrate, Tetrahydrate

Nitric Acid, Calcium Salt, Tetrahydrate;  $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$

F.W. 236.16

CAS: 13477-34-4

Color: White

**Solubility in Water:** Soluble

**Shelf Life:** 1 year

**DOT Class 5.1, III:** *Oxidizer*

### REAGENT GRADE

S25226	100g	9.85
S25226A	500g	18.50

## Calcium Oxide

Quicklime;  $\text{CaO}$

F.W. 56.08

CAS: 1305-78-8

Color: White to yellow-very slightly beige

**Solubility in Water:** Reacts with water

**Shelf Life:** 12 months

**DOT Class 8, III:** *Corrosive*

### LAB GRADE - POWDER

S25227	100g	7.05
S25227A	500g	19.25

## Calcium Phosphate Monobasic, Monohydrate

$\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$

F.W. 252.07

CAS: 10031-30-8

Color: Colorless

**Solubility in Water:** Partially soluble

**Shelf Life:** 2 years

### SOLID

S25228	100g	11.00
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## Calcium Phosphate, Tribasic

Tricalcium Phosphate;  $\text{Ca}_{10}(\text{OH})_2(\text{PO}_4)_6$

F.W. 1004.70

CAS: 7758-87-4

Color: White

**Solubility in Water:** Insoluble

**Shelf Life:** 5 years

### SOLID

S25229	500g	44.25
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## Calcium Sulfate, Dihydrate

Calcium (II) Sulfate;  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

F.W. 172.17

CAS: 10101-41-4

Color: White

**Shelf Life:** 5 years

### REAGENT GRADE - POWDER

S25230	100g	14.25
S25230A	500g	26.25

## Calcium Sulfate, Hemihydrate

Plaster of Paris;  $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$

F.W. 145.15

CAS: 10034-76-1

Color: White with a blue, gray or red hue

**Solubility in Water:** 0.2% in water

**Shelf Life:** 5 years

### SOLID

S25231	500g	6.75
S25231A	2.5kg	18.00
S25231B	10kg	72.00

## Calmagite

$\text{C}_{17}\text{H}_{14}\text{N}_2\text{O}_5\text{S}$

F.W. 358.38

CAS: 3147-14-6

Color: Black

**Solubility in Water:** Soluble

**Shelf Life:** 2 years

**DOT Class 8, III:** *Corrosive*

### SOLID

S25674	5g	37.00
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## Camphor

2-Bornanone; C<sub>10</sub>H<sub>16</sub>O

F.W. 152.25

CAS: 76-22-2

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.1, III: Flammable Solid

**FLAMMABLE**

LAB GRADE		
S25232	25g	8.55
REAGENT GRADE		
S25232A	100g	14.00
S25232B	500g	68.50

## Carbol Fuchsin Solution, 0.3%

Ziehl-Neelsen

Color: Opaque Red

Solubility in Water: Completely soluble

Shelf Life: 18 months

DOT Class 3 (6.1), III: Flammable Liquid

**FLAMMABLE**

0.30%		
S25233	100mL	9.90
S25233A	500mL	24.00

## Carbonic Acid Solution, pH 5.7

Simulated Acid Rain; H<sub>2</sub>CO<sub>3</sub>

Color: Clear, colorless

Shelf Life: 2 years

**MODERATE HAZARD**

SOLUTION		
S25234	500mL	12.50
S25234A	4L	20.50

## Carborundum

Silicon Carbide

F.W. 40.09

CAS: 409-21-2

Color: Colorless to black

Solubility in Water: Insoluble in water

Shelf Life: 5 years

**MODERATE HAZARD**

SOLID		
S25235	100g	5.00
S25235A	250g	13.50

## Carmine

Aluminum Lake

F.W. 184.14

CAS: 1390-65-4

Color: Rose/red

Shelf Life: 5 years

**MODERATE HAZARD**

SOLID		
S25236	10g	38.75

## Carnoy's Solution

Carnoy-Lebrun Solution (Fixative)

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 3 (6.1), III: Flammable Liquid

**FLAMMABLE**

10% W/V		
S25237	100mL	12.50

## Casein

Milk Protein

CAS: 9000-71-9

Color: White

Solubility in Water: Slightly soluble

Shelf Life: 2 years

SOLID		
S25238	100g	13.25

**MODERATE HAZARD**

## Catalase (20,000 Units per Gram)

Caperase

CAS: 9001-05-2

Color: White to tan

Shelf Life: 1 year

POWDER		
S25239	40mg	9.50
S25239A	1g	37.50

**MODERATE HAZARD**

## Catechol

1,2-Dihydroxybenzene; C<sub>6</sub>H<sub>4</sub>O<sub>2</sub>·xH<sub>2</sub>O

F.W. 290.27

CAS: 225937-10-0

Color: White to brown

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1, III: Poison

SOLID		
S25680	1g	33.50

**HEALTH HAZARD**

## Cedarwood Oil

Oil Cedar

CAS: 8000-27-9

Color: Colorless to light yellow

Solubility in Water: Negligible

Shelf Life: 5 years

VISCIOUS SOLUTION		
S25240A	100mL	49.75

**MODERATE HAZARD**

## Cellulase

Cellulase Enzyme

CAS: 9012-54-8

Color: Light tan

Solubility in Water: Soluble

Shelf Life: 5 years

POWDER		
S25241	25g	43.00

**MODERATE HAZARD**

## Cellulose

Cellulose, Microcrystalline

F.W. 162.14

CAS: 9004-34-6

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

LAB GRADE		
S25241A	500g	50.00

**MODERATE HAZARD**

## Cetyl Alcohol

1-Hexadecanol; CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>2</sub>OH

F.W. 242.43

CAS: 36653-82-4

Color: White

Solubility in Water: Insoluble in water

Shelf Life: 5 years

SOLID		
S25675	100g	13.25
S25675A	500g	32.25

**MODERATE HAZARD**

## Charcoal

Activated Carbon; C

F.W. 12.01

CAS: 7440-44-0

Color: Black

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.2, III: Spontaneously Combustible

**FLAMMABLE**

ACTIVATED CHARCOAL		
S25246	500g	26.75
BONE POWDER		
S25243	500g	29.50
DECOLORIZING AGENT		
S25245	250g	27.50
WOOD LUMP		
S25244	500g	39.75

## Chlorine Water

Chlorine Test Solution

Color: Pale yellow

Solubility in Water: Soluble in water

Shelf Life: 6 months

DOT Class 8, III: Corrosive

**CORROSIVE**

SOLUTION		
S25247	1L	11.75

## Chloroform

Trichloromethane; CHCl<sub>3</sub>

F.W. 119.38

CAS: 67-66-3

Color: Clear

Solubility in Water: Slightly soluble

Shelf Life: 2 years

DOT Class 6.1, III: Poison

**HEALTH HAZARD**

REAGENT GRADE		
S25248***	100mL	9.95

## Chlorophyllin

Na, K, Cu, Chlorophyll Salts

F.W. 724.15

Color: Dark Green

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25676	5g	51.75

**MODERATE HAZARD**



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Cholesterol

(3β)-Choles-5En-3-Ol; C<sub>27</sub>H<sub>46</sub>O  
**F.W.** 385.31  
**CAS:** 57-88-5  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25677</b>	25g	40.50

### Chromatography Solvent

Petroleum Ether  
**Color:** Clear  
**Solubility in Water:** Insoluble  
**Shelf Life:** 2 years  
**DOT Class 3, II:** Flammable Liquid

FLAMMABLE

<b>LIQUID</b>		
<b>S25253</b>	500mL	17.50

### Chromium

Chrom; Cr  
**F.W.** 52.00  
**CAS:** 7440-47-3  
**Color:** Silver-gray  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25249</b>	25g	12.75
<b>S25249A</b>	100g	22.50

### Chromium (II) Potassium Sulfate

Chrom Alum Dodecahydrate; CrK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
**F.W.** 499.43  
**CAS:** 7788-99-0  
**Color:** Metallic purple  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years

MODERATE HAZARD

<b>LAB GRADE</b>		
<b>S25252</b>	100g	22.00
<b>REAGENT GRADE</b>		
<b>S25252A</b>	500g	29.25

### Chromium (III) Oxide

Chromic Oxide; Cr<sub>2</sub>O<sub>3</sub>  
**F.W.** 151.99  
**CAS:** 1308-38-9  
**Color:** Green  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25251</b>	100g	18.25

### Chromium Nitrate Solution, 0.1M

**Color:** Gray, Purple  
**Solubility in Water:** Soluble in water

MODERATE HAZARD

<b>0.1M</b>		
<b>S25850</b>	500mL	16.00

### Chromium Nitrate, Nonahydrate

Chromic Nitrate Nonahydrate; Cr(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
**F.W.** 400.18  
**CAS:** 7789-02-8  
**Color:** Purple  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year  
**DOT Class 5.1, III:** Oxidizer

REACTIVE & OXIDIZING

<b>REAGENT GRADE</b>		
<b>S25250</b>	100g	17.25
<b>S25250A</b>	500g	45.25

### Citric Acid, Anhydrous

β-Hydroxytricarboxylic Acid; C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>  
**F.W.** 192.13  
**CAS:** 77-92-9  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year

MODERATE HAZARD

<b>LAB GRADE</b>		
<b>S25255</b>	100g	8.80
<b>S25255A</b>	500g	14.50

### Citric Acid, Monohydrate

2-Hydroxy-1,2,3-Propanetricarboxylic Acid Monohydrate; C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>·H<sub>2</sub>O  
**F.W.** 210.15  
**CAS:** 5949-29-1  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year

MODERATE HAZARD

<b>SOLID</b>		
<b>S25254</b>	100g	7.00
<b>S25254A</b>	500g	25.50

### Clayton Yellow

Thiazol Yellow G  
**F.W.** 695.73  
**CAS:** 1829-00-1  
**Color:** Tan  
**Shelf Life:** 5 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25678</b>	10g	24.00

### Cobalt

Co  
**F.W.** 58.93  
**CAS:** 7440-48-4  
**Color:** Gray  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25256*</b>	100g	88.00

### Cobalt Nitrate Solution, 0.1M

**Color:** Pink  
**Solubility in Water:** Soluble in water

MODERATE HAZARD

<b>0.1M</b>		
<b>S25852</b>	500mL	8.75

### Cobalt Nitrate Solution, 1M

**Color:** Clear pink  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years

MODERATE HAZARD

<b>1M</b>		
<b>S25259</b>	50mL	8.30

### Cobalt Oxide

Cobalt (II, III) Oxide; Co<sub>3</sub>O<sub>4</sub>  
**F.W.** 240.80  
**CAS:** 1308-06-1  
**Color:** Gray/black  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years

MODERATE HAZARD

<b>POWDER</b>		
<b>S25258</b>	100g	74.25

### Cobalt Sulfate, Heptahydrate

Cobaltous Sulfate Heptahydrate; CoSO<sub>4</sub>·7H<sub>2</sub>O  
**F.W.** 281.12  
**CAS:** 10026-24-1  
**Color:** Red/pink  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25262*</b>	500g	50.25

### Cobalt(ous) Chloride, Hexahydrate Solution, 0.1M

**Color:** Clear, pink-purple  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 2 years

MODERATE HAZARD

<b>0.1M</b>		
<b>S25851</b>	500mL	7.15

### Cobalt(ous) Chloride, Hexahydrate Solution, 1M

**Color:** Clear, pink-purple  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 2 years

MODERATE HAZARD

<b>1M</b>		
<b>S25260</b>	500mL	18.50

### Cobalt(ous) Chloride, Hexahydrate

Cobalt(II) Chloride Hexahydrate; CoCl<sub>2</sub>·6H<sub>2</sub>O  
**F.W.** 237.95  
**CAS:** 7791-13-1  
**Color:** Purple  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years  
**DOT Class 8, III:** Corrosive

CORROSIVE

<b>LAB GRADE</b>		
<b>S25257</b>	100g	17.75
<b>REAGENT GRADE</b>		
<b>S25257A</b>	100g	18.50



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 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Cobalt(ous) Nitrate, Hexahydrate

Cobalt(II) Nitrate Hexahydrate;  $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$

F.W. 291.05

CAS: 10026-22-9

Color: Red

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, II: Oxidizer

REACTIVE & OXIDIZING

LAB GRADE		
S25261A	100g	28.00
REAGENT GRADE		
S25261	100g	20.25
S25261B	500g	62.25

## Coconut Oil

Copra Oil

CAS: 8001-31-8

Color: White to pale yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

SOLID		
S25263	500g	10.50

## Congo Red, 0.1% Aqueous Solution

Color: Clear, red

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

0.10%		
S25265	100mL	5.60

## Congo Red, Biological Stain, pH Indicator

C.I. Direct Red 28;  $\text{C}_{32}\text{H}_{22}\text{N}_6\text{Na}_2\text{O}_6\text{S}_2$

F.W. 696.67

CAS: 573-58-0

Color: Red-brown

Solubility in Water: Complete

Shelf Life: 5 years

DOT Class 4.1, III: Flammable

FLAMMABLE

SOLID		
S25264	25g	19.25

## Copper (I) Chloride, Anhydrous

Cuprous Chloride;  $\text{CuCl}$

F.W. 99.00

CAS: 7758-89-6

Color: Green to gray

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 8, III: Corrosive

CORROSIVE

LAB GRADE - POWDER		
S25290	100g	14.75
REAGENT GRADE - POWDER		
S25290A	500g	41.00

## Copper (II) Acetate, Monohydrate

Cupric Acetate Monohydrate;  $(\text{CH}_3\text{CO}_2)_2\text{Cu} \cdot \text{H}_2\text{O}$

F.W. 199.65

CAS: 6046-93-1

Color: Blue-green

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 9, III: Miscellaneous

HEALTH HAZARD

LAB GRADE		
S25276	100g	22.00
S25276A	500g	46.75

## Copper (II) Bromide

Cupric Bromide;  $\text{CuBr}_2$

F.W. 223.37

CAS: 7789-45-9

Color: Gray/blue

Solubility in Water: Soluble

Shelf Life: 12 months

MODERATE HAZARD

REAGENT GRADE		
S25277	25g	13.75
S25277A	100g	29.50

## Copper (II) Carbonate

Cupric Carbonate Basic;  $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$

F.W. 221.11

CAS: 12069-69-1

Color: Dark green

Solubility in Water: Insoluble in water

Shelf Life: 5 years

MODERATE HAZARD

POWDER		
S25278	500g	34.00

## Copper (II) Chloride Solution, 1M

Cupric Chloride

Color: Light blue-green

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

1M		
S25280	50mL	7.05
S25280A	500mL	35.25

## Copper (II) Chloride, Anhydrous

Cupric Chloride, Anhydrous;  $\text{CuCl}_2$

F.W. 134.45

CAS: 7447-39-4

Color: Yellow/brown

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

CORROSIVE

LAB GRADE		
S25281	100g	23.00

## Copper (II) Chloride, Dihydrate

Cupric Chloride, Dihydrate;  $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$

F.W. 170.48

CAS: 10125-13-0

Color: Blue-green

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

CORROSIVE

LAB GRADE		
S25279B	500g	20.50
S25279C	2kg	80.00
REAGENT GRADE		
S25279	100g	14.00
S25279A	500g	40.75

## Copper (II) Nitrate Solution, 1M

Cupric Nitrate Solution

Color: Blue

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

1M		
S25283	500mL	13.00

## Copper (II) Nitrate, Trihydrate

Cupric Nitrate Trihydrate;  $\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$

F.W. 241.60

CAS: 10031-43-3

Color: Blue

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, II: Oxidizer

REACTIVE & OXIDIZING

LAB GRADE		
S25282B	500g	29.25
REAGENT GRADE		
S25282	100g	15.25
S25282A	500g	45.25

## Copper (II) Oxide

Cupric Oxide;  $\text{CuO}$

F.W. 79.54

CAS: 1317-38-0

Color: Black

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

REAGENT GRADE		
S25284	25g	8.05

## Copper (II) Sulfate Solutions

Color: Blue

Solubility in Water: Soluble in water

Shelf Life: 2 years

MODERATE HAZARD

0.1M		
S25853	500mL	6.75
1M		
S25289	500mL	8.45

**Copper (II) Sulfate, Pentahydrate, Lab Grade**Cupric Sulfate; CuSO<sub>4</sub>·5H<sub>2</sub>O

F.W. 249.68

CAS: 7758-99-8

Color: Blue

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 6.1, III: *Poison***HEALTH HAZARD****LAB GRADE - CRYSTALS**

S25287A 500g 21.50

**LAB GRADE - POWDER**

S25288A 500g 12.75

S25288 2kg 38.50

**Copper (II) Sulfate, Pentahydrate, Reagent Grade**Cupric Sulfate; CuSO<sub>4</sub>·5H<sub>2</sub>O

F.W. 249.68

CAS: 7758-99-8

Color: Blue

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 6.1, III: *Poison***HEALTH HAZARD****REAGENT GRADE - CRYSTALS**

S25287 500g 21.00

S25287B 1kg 55.25

**REAGENT GRADE - POWDER**

S25286 100g 18.75

S25286A 500g 49.25

S25286B 3kg 72.00

**Copper Sulfate, Anhydrous**Cupric Sulfate; CuSO<sub>4</sub>

F.W. 159.61

CAS: 7758-98-7

Color: Light gray

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 6.1, III: *Poison***HEALTH HAZARD****REAGENT GRADE - POWDER**

S25285 100g 28.00

S25285A 500g 49.25

**Copper, Foil**

Cu

F.W. 63.54

CAS: 7440-50-8

Color: Red to brown

Solubility in Water: Insoluble

Shelf Life: 5 years

**MODERATE HAZARD****METAL FOIL**

S25267 100g 13.50

S25267A 500g 57.25

**Copper, Sheet**

Cu

F.W. 63.54

CAS: 7440-50-8

Color: Red to brown

Solubility in Water: Insoluble

Shelf Life: 5 years

**MODERATE HAZARD****METAL SHEET - 12 × 12"**

S25269 Ea. 93.00

**Copper, Solid**

Cu

F.W. 63.54

CAS: 7440-50-8

Color: Red to brown

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.1, II: *Flammable Solid***FLAMMABLE****GRANULAR**

S25268 100g 18.25

S25268A 500g 74.00

**REAGENT GRADE POWDER**

S25266 100g 14.00

S25266A 500g 56.75

**SHOT**

S25909 500g 48.75

**Copper, Strips**

Cu

F.W. 63.55

CAS: 7440-50-8

Copper Sulfate

Density: 8.94

7440-50-8

Boiling Point: 2595°C (1981.4°F)

Melting Point: 1083°C (4703°F)

**FLAMMABLE****Strips**

S25911 6 × 14 in. 16.75

**Copper, Turnings**

Cu

F.W. 63.54

CAS: 7440-50-8

Color: Red to brown

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.1, II: *Flammable***FLAMMABLE****METAL TURNINGS**

S25270 100g 17.50

**Corn Oil**

CAS: 8001-30-7

Color: Yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

**MODERATE HAZARD****SOLUTION**

S25271 500mL 8.35

**Corn Syrup**

Glucose Solution

CAS: 50-99-7

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 5 years

**MODERATE HAZARD****LIQUID**

S25339 500mL 11.00

**Cresol Red Solution, 0.02%**

Color: Clear, red

Solubility in Water: Infinite

Shelf Life: 18 months

**MODERATE HAZARD****0.02%**

S25273 100mL 9.75

**Cresol Red, Sodium Salt**

O-Cresolsulfonephthalein

F.W. 404.4

CAS: 62625-29-0

Color: Reddish-brown

Solubility in Water: Soluble

Shelf Life: 5 years

**MODERATE HAZARD****POWDER**

S25272 1g 9.50

**Crystal Violet Solutions**

Gentian Violet

Color: Violet

Solubility in Water: Soluble in water

Shelf Life: 18 months

**MODERATE HAZARD****0.5% - GRAM STAIN**

S25275B 500mL 25.25

**1%**

S25275A 100mL 8.20

**1% - GRAM STAIN**

S25275 100mL 17.50

**Crystal Violet, Certified Biological Stain**Gentian Violet; C<sub>25</sub>H<sub>30</sub>ClN<sub>3</sub>

F.W. 408.00

CAS: 548-62-9

Color: Green

Solubility in Water: Soluble in water

Shelf Life: 5 years

**MODERATE HAZARD****SOLID**

S25274 1g 6.80

S25274A 10g 14.00

S25274B 25g 12.25

**Cyclohexane**Hexahydrobenzene; C<sub>6</sub>H<sub>12</sub>

F.W. 84.15

CAS: 110-82-7

Color: Clear

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 3, II: *Flammable Liquid***FLAMMABLE****REAGENT GRADE**

S25292 500mL 12.25

S25292A 1L 43.50

**Cyclohexene**

$C_6H_{12}$   
**F.W.** 82.13  
**CAS:** 110-83-8  
**Color:** Clear, colorless  
**Solubility in Water:** Insoluble  
**Shelf Life:** 2 years  
**DOT Class 3, II: Flammable Liquid**

**FLAMMABLE**

SOLUTION		
<b>S25291</b>	250mL	41.25
<b>S25291A</b>	500mL	58.50

**L-Cysteine**

Thioserine; Cysteine;  $HSCH_2CH(NH_2)CO_2H$   
**F.W.** 121.16  
**CAS:** 52-90-4  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 2 years

**MODERATE HAZARD**

SOLID		
<b>S25682</b>	5g	18.75

**Deoxyribonucleic Acid**

DNA  
**CAS:** 9007-49-2  
**Color:** White to off-white  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years

**MODERATE HAZARD**

SOLID		
<b>S25294</b>	25g	70.25

**Dextrin**

Vegetable Gum;  $(C_6H_{10}O_5)_n$   
**F.W.** 162.07  
**CAS:** 9004-53-9  
**Color:** White to off-white  
**Solubility in Water:** Soluble in hot water  
**Shelf Life:** 2 years

**MODERATE HAZARD**

SOLID		
<b>S25683</b>	500g	14.25

**Dextrose, Anhydrous**

Glucose;  $C_6H_{12}O_6$   
**F.W.** 180.16  
**CAS:** 50-99-7  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years

**MODERATE HAZARD**

LAB GRADE		
<b>S25295</b>	100g	7.50
<b>S25295A</b>	500g	14.25
<b>S25295B</b>	1kg	19.75

**Dextrose, Monohydrate**

Glucose;  $C_6H_{12}O_6 \cdot H_2O$   
**F.W.** 198.18  
**CAS:** 14431-43-7  
**Color:** White  
**Solubility in Water:** soluble  
**Shelf Life:** 2 years

**MODERATE HAZARD**

LAB GRADE		
<b>S25296</b>	500g	9.85

Chemicals are educational grade and are intended for teaching use only.  
 Not approved for clinical use.

**Diatase of Malt**

Maltin  
**CAS:** 9000-92-4  
**Color:** Yellow-white  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years

**MODERATE HAZARD**

LAB GRADE		
<b>S25297</b>	25g	11.00
<b>S25297A</b>	100g	30.00

**Diatomaceous Earth**

Silica  
**CAS:** 68855-549  
**Color:** White  
**Solubility in Water:** Insoluble in water  
**Shelf Life:** 2 years

**MODERATE HAZARD**

LAB GRADE		
<b>S25298</b>	500g	17.25

**p-Dichlorobenzene**

1,4-Dichlorobenzol;  $C_6H_4Cl_2$   
**F.W.** 147.00  
**CAS:** 106-46-7  
**Color:** White  
**Solubility in Water:** Insoluble  
**Shelf Life:** 2 years  
**DOT Class 9, III: Miscellaneous**

**HEALTH HAZARD**

LAB GRADE		
<b>S25299*</b>	500g	14.50
<b>S25299A*</b>	1kg	40.25
<b>S25299C*</b>	2.5kg	51.00
<b>S25299B*</b>	3kg	84.00

**2,6-Dichloroindophenol Sodium Salt**

2,6-Dichlorophenol Indophenol Sodium Salt;  
 $NaOC_6H_3N \cdot C_6H_2(Cl)_2 \cdot O$   
**F.W.** 290.08  
**CAS:** 620-45-1

**MODERATE HAZARD**

POWDER		
<b>S25300B</b>	0.036g	8.00
<b>S25300</b>	1g	12.25
<b>S25300A</b>	5g	37.00

**Dimethylglyoxime**

2, 3-Butanedione Dioxime;  $(CH_3)_2C_2(NOH)_2$   
**F.W.** 116.12  
**CAS:** 95-45-4  
**Color:** White to off-white  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years  
**DOT Class 4.1, III: Flammable Solid**

**FLAMMABLE**

REAGENT GRADE		
<b>S25301</b>	25g	19.50

**Diphenylamine**

$(C_6H_5)_2NH$   
**F.W.** 169.23  
**CAS:** 122-39-4  
**Color:** Colorless to gray  
**Shelf Life:** 5 years  
**DOT Class 6.1, III: Poison**

**HEALTH HAZARD**

REAGENT GRADE		
<b>S25302</b>	100g	31.00

**Dithizone**

Diphenylthiocarbazon;  $C_{13}H_{12}N_2S$   
**F.W.** 256.32  
**CAS:** 60-10-6  
**Color:** Dark Brownish-black  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years

**MODERATE HAZARD**

SOLID		
<b>S25685</b>	2.5g	28.00

**Dodecyl Alcohol**

Lauryl Alcohol;  $CH_3(CH_2)_{11}OH$   
**F.W.** 186.34  
**CAS:** 112-53-8  
**Color:** White  
**Solubility in Water:** Insoluble in water  
**Shelf Life:** 5 years  
**DOT Class 9, III: Miscellaneous**

**HEALTH HAZARD**

SOLID		
<b>S25686A</b>	100g	30.00

**Drierite™**

Calcium Sulfate  
**F.W.** 136.14  
**CAS:** 7778-18-9  
**Color:** Off-white  
**Shelf Life:** 5 years

**MODERATE HAZARD**

SOLID		
<b>S25684</b>	454g	23.75

**EDTA, Disodium Salt**

Ethylenediaminetetraacetic Acid, Disodium Salt Dihydrate;  
 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
**F.W.** 372.23  
**CAS:** 6381-92-6  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

**MODERATE HAZARD**

REAGENT GRADE		
<b>S25687</b>	25g	14.50
<b>S25687A</b>	100g	39.75



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Eosin Yellow, 1% Alcohol Solution

CAS: 17372-87-1  
 Color: Orange  
 Solubility in Water: Infinite  
 Shelf Life: 18 months  
 DOT Class 3, II: *Flammable Liquid*

---

1%  
**S25303** 100mL 9.55

**FLAMMABLE**

LAB GRADE - 95% DENATURED W/IPA AND METHANOL

<b>S25309</b>	500mL	6.40
<b>S25309C</b>	1L	11.50
<b>S25309A (SAFE-COTE)</b>	3.8L	86.00
<b>S25309B</b>	4L	29.50
	Case of 4 x 4L	122.72

### FAA Solution

Formalin-Acetic Acid Alcohol  
 Color: Clear  
 Solubility in Water: Miscible  
 Shelf Life: 2 years  
 DOT Class 3, II: *Flammable Liquid*

---

**SOLUTION**  
**S25688** 500mL 12.00

**FLAMMABLE**

### Eriochrome Black T

Mordant Black 11  
 F.W. 461.38  
 CAS: 1787-61-7  
 Color: Black  
 Shelf Life: 5 years

---

**SOLID**  
**S25304** 25g 13.75

**MODERATE HAZARD**

### Ethylenediamine

1, 2-Diaminoethane; H<sub>2</sub>NCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>  
 F.W. 60.10  
 CAS: 107-15-3  
 Color: Clear, colorless  
 Solubility in Water: Soluble  
 Shelf Life: 2 years  
 DOT Class 8 (3), II: *Corrosive*

---

LAB GRADE - SOLUTION  
**S25312** 100mL 23.50

**CORROSIVE**

### Fast Green FCF

Food Green  
 CAS: 2353-45-9  
 Color: Maroon to Dark Brown  
 Solubility in Water: Soluble  
 Shelf Life: 5 years

---

**SOLID**  
**S25691** 1g 12.75

**MODERATE HAZARD**

### Electrode Storage Solution

CAS: 877-24-7  
 Color: Colorless  
 Shelf Life: 2 years

---

**SOLUTION**  
**S25907** 1L 34.00

**MODERATE HAZARD**

### Ethylenediamine Tetracetic Acid

EDTA; C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>8</sub>  
 F.W. 292.25  
 CAS: 60-00-4  
 Color: Colorless to White  
 Solubility in Water: Slightly soluble  
 Shelf Life: 5 years

**MODERATE HAZARD**

### Fast Green Solution, 1%

Color: Dark Green  
 Solubility in Water: Soluble  
 Shelf Life: 18 months

---

1%  
**S25692** 20mL 12.25

**MODERATE HAZARD**

### Ethyl Acetate

Acetic Acid Ethyl Ester; CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>  
 F.W. 88.11  
 CAS: 141-78-6  
 Color: Clear, colorless  
 Solubility in Water: Slightly soluble  
 Shelf Life: 2 years  
 DOT Class 3, II: *Flammable Liquid*

---

ACS GRADE  
**S25305** 500mL 12.25

**FLAMMABLE**

REAGENT GRADE

<b>S25311A</b>	25g	13.50
<b>S25311B</b>	100g	18.00
<b>S25311</b>	500g	60.50

### Ethyl Ether, Anhydrous

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O  
 FW: 74.12  
 CAS: 60-29-7  
 Color: Clear  
 Solubility in Water: Soluble  
 Shelf Life: 2 years  
 DOT Class 3, I: *Flammable*

---

ACS GRADE  
**S25903** 4L 139.00  
**S25903L** 1L 56.00

**FLAMMABLE**

### Fehling's Solution, A

Color: Clear, blue  
 Solubility in Water: Infinite  
 Shelf Life: 2 years

---

**SOLUTION**  
**S25313** 500mL 5.85

**MODERATE HAZARD**

### Ethyl Alcohol

Ethanol; C<sub>2</sub>H<sub>5</sub>OH  
 F.W. 46.07  
 CAS: 64-17-5  
 Color: Clear, colorless  
 Solubility in Water: Slightly soluble  
 Shelf Life: 5 years  
 DOT Class 3, II: *Flammable Liquid*

---

70% DENATURED W/MIBK  
**S25306** 500mL 8.75  
**S25306A** 4L 25.50

---

95% DENATURED W/IPA AND METHANOL  
**S25309D** 500mL 6.40  
**S25309E** 4L 60.75

---

95% DENATURED W/MIBK  
**S25310** 500mL 10.25  
**S25310A** 3.8L 42.75

---

ANHYDROUS, DENATURED W/MIBK  
**S25307** 500mL 7.45  
**S25307A** 1L 17.75  
**S25307B** 4L 39.00

---

ANHYDROUS, DENATURED, W/IPA AND METHANOL  
**S25308\*\*** 1L 24.25  
**S25308A\*\*** 20L 159.00

**FLAMMABLE**

### Ethylene Glycol

Glycol; C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>  
 FW: 62.06  
 CAS: 107-21-1  
 Color: Clear, colorless  
 Shelf Life: 2 years  
 DOT Class 3, I: *Flammable*

---

LAB GRADE  
**S25905\*\*** 4L 117.00

**FLAMMABLE**

### Fehling's Solution, B

Color: Clear, colorless  
 Solubility in Water: Soluble in water  
 Shelf Life: 2 years  
 DOT Class 8, II: *Corrosive*

---

**SOLUTION**  
**S25314** 500mL 11.00

**CORROSIVE**

### Ferric Ammonium Citrate

Iron (III) Ammonium Citrate  
 CAS: 1185-57-5  
 Color: Yellow, green, or red-brown  
 Solubility in Water: Freely soluble  
 Shelf Life: 1 year

---

**SOLID**  
**S25315** 500g 23.00

**MODERATE HAZARD**

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### Ferric Ammonium Sulfate, Dodecahydrate

Ammonium Iron (III) Sulfate;  $\text{Fe}(\text{NH}_4)(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$

F.W. 482.19

CAS: 7783-83-7

Color: Purple

Solubility in Water: Soluble in water

Shelf Life: 1 year

SOLID		
S25316	100g	11.75
S25316A	500g	33.50

MODERATE HAZARD

### Ferric Chloride Hexahydrate

Iron (III) Chloride;  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$

F.W. 270.30

CAS: 10025-77-1

Color: Dark yellow/brown

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

REAGENT GRADE - SOLID		
S25317	100g	12.50
S25317A	500g	27.75
SOLUTION - 1M		
S25318	500mL	12.25

CORROSIVE

### Ferric Nitrate Solution, 1M

Iron (III) Nitrate Solution

Color: Pale green

Solubility in Water: Soluble

Shelf Life: 1 year

REAGENT GRADE		
S25320	500mL	15.50

MODERATE HAZARD

### Ferric Nitrate, Nonahydrate

Iron (III) Nitrate;  $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$

F.W. 404.00

CAS: 7782-61-8

Color: White to gray or light purple

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, III: Oxidizer

REAGENT GRADE		
S25319	100g	20.75
S25319A	500g	39.00

REACTIVE & OXIDIZING

### Ferric Sulfate, Hydrated

Iron Persulfate

CAS: 10028-22-5

Color: Yellow-gray

Solubility in Water: Soluble in water

Shelf Life: 1 year

REAGENT GRADE		
S25322	100g	11.75
S25322A	500g	94.00

MODERATE HAZARD

### Ferric(ous) Oxide, Black

Black Iron Oxide;  $\text{Fe}_3\text{O}_4$

F.W. 231.54

CAS: 1317-61-9

Color: Black

Solubility in Water: Insoluble

Shelf Life: 5 years

LAB GRADE		
S25321	500g	29.00

MODERATE HAZARD

### Ferrioin Solution, 0.5%

Color: Clear, dark red

Solubility in Water: Infinite

Shelf Life: 18 months

0.50%		
S25693	10mL	9.90

MODERATE HAZARD

### Ferrous Ammonium Sulfate Solution, 0.1M

Color: Clear

Solubility in Water: Miscible in water

0.1M		
S25854*	500mL	13.00

MODERATE HAZARD

### Ferrous Ammonium Sulfate, Hexahydrate

Ammonium Iron (II) Sulfate;  $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$

F.W. 392.13

CAS: 7783-85-9

Color: Light Green

Solubility in Water: Soluble

Shelf Life: 1 year

REAGENT GRADE - CRYSTALS		
S25323	100g	12.25
S25323A	500g	31.75

MODERATE HAZARD

### Ferrous Chloride, Tetrahydrate

Iron (II) Chloride Tetrahydrate;  $\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$

F.W. 198.81

CAS: 13478-10-9

Color: Light Green

Solubility in Water: Soluble in alcohol

Shelf Life: 1 year

DOT Class 8, III: Corrosive

REAGENT GRADE		
S25324	25g	14.25
S25324A	100g	24.50
S25324B	500g	73.25

CORROSIVE

### Ferrous Sulfate, Heptahydrate

Iron (II) Sulfate;  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

F.W. 278.01

CAS: 7782-63-0

Color: Blue-green

Solubility in Water: Soluble

Shelf Life: 1 year

SOLID		
S25325	100g	12.25
S25325A	500g	26.75

MODERATE HAZARD

### Ferrous Sulfate, Heptahydrate, Solution, 1M

Color: Blue to green

Solubility in Water: Soluble

Shelf Life: 1 year

1M		
S25326*	500mL	12.50

MODERATE HAZARD

### Ferrous Sulfide

Iron (II) Sulfide;  $\text{FeS}$

F.W. 87.91

CAS: 1317-37-9

Color: Gray to brown-black

Solubility in Water: Insoluble in water

Shelf Life: Two years

SOLID		
S25327	500g	55.00

MODERATE HAZARD

### Fluorescein, Disodium Salt

Uranin;  $\text{C}_{20}\text{H}_{10}\text{O}_5\text{Na}_2$

CAS: 518-47-8

Color: Rust/Orange

Solubility in Water: Soluble in water

Shelf Life: 5 years

POWDER		
S25328	25g	11.75
S25328A	100g	24.75

MODERATE HAZARD

### Formaldehyde Solution, 37%

Formalin; HCHO

CAS: 50-00-0

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 3 (8), III: Flammable, Corrosive

LAB GRADE - 37%		
S25329*	500mL	17.75

FLAMMABLE

### Formalin Solution, 10%

4% Formaldehyde; HCHO

CAS: 50-00-0

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 9, III: Miscellaneous

10% W/V		
S25689	1L	22.25
S25330	4L	65.00

HEALTH HAZARD



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**Formic Acid, 88%**

Methanoic Acid; HCOOH

F.W. 46.03

CAS: 64-18-6

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8 (3), II: Corrosive

**FLAMMABLE****REAGENT GRADE**

<b>S25331</b>	100mL	19.25
<b>S25331A</b>	500mL	26.75

**D-Fructose**Fruit Sugar; C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

F.W. 180.16

CAS: 57-48-7

Color: White

Solubility in Water: Freely soluble

Shelf Life: 5 years

**MODERATE HAZARD****SOLID**

<b>S25332</b>	100g	21.25
<b>S25332A</b>	500g	24.00

**Fuchsin Acid**Acid Fuchsin; C<sub>20</sub>H<sub>17</sub>N<sub>3</sub>Na<sub>2</sub>O<sub>9</sub>S<sub>3</sub>

F.W. 585.54

CAS: 3244-88-0

Color: Green

Solubility in Water: Soluble

Shelf Life: 5 years

**MODERATE HAZARD****SOLID**

<b>S25690</b>	5g	21.25
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**Fuchsin Acid Staining Solution, 1%**

Color: Red

Solubility in Water: Soluble

Shelf Life: 18 months

**MODERATE HAZARD****1%**

<b>S25694</b>	20mL	9.35
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**Fumaric Acid**Trans-Butenedioic Acid; C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

F.W. 116.07

CAS: 110-17-8

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

**MODERATE HAZARD****SOLID**

<b>S25333</b>	100g	8.85
<b>S25333A</b>	500g	21.25

**D-Galactose**D-Galactopyranose; C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

F.W. 180.09

CAS: 59-23-4

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

**MODERATE HAZARD****SOLID**

<b>S25334</b>	100g	43.50
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**Gastric Juice**

Color: Yellowish

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 8, II: Corrosive

**CORROSIVE****SOLUTION**

<b>S25695A</b>	500mL	12.75
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**Gelatin**

Pharmagel

CAS: 9000-70-8

Color: White/Pale-yellow

Solubility in Water: Soluble

Shelf Life: 5 years

**MODERATE HAZARD****LAB GRADE**

<b>S25335</b>	500g	22.25
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**Giemsa Solution**

Color: Dark

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

**FLAMMABLE****SOLUTION**

<b>S25697</b>	100mL	50.50
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**Glucose Solution, 0.1%**

Glucose Solution

Shelf Life: 2 years

**MODERATE HAZARD****0.10%**

<b>S25336</b>	50mL	9.50
<b>S25337</b>	500mL	52.00

**Glucose Solution, 15%**

Glucose Solution

Shelf Life: 2 years

**MODERATE HAZARD****15%**

<b>S25338</b>	250mL	5.35
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**D-Glucose-1-Phosphate, Disodium Salt**α-D-Glucopyranose 1-Phosphate; C<sub>6</sub>H<sub>11</sub>Na<sub>2</sub>O<sub>9</sub>P·4H<sub>2</sub>O

F.W. 376.16

CAS: 56401-20-8

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

**MODERATE HAZARD****SOLID**

<b>S25340</b>	1g	30.00
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**Glue, White**

Liquid Glue

Solubility in Water: Soluble in water

Shelf Life: 5 years

**MODERATE HAZARD****SOLUTION**

<b>S25700</b>	1L	13.50
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**Glutaraldehyde Solution, 25%**

Color: Clear, colorless to pale yellow

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1(8), II: Poison

**HEALTH HAZARD****25%**

<b>S25341</b>	1L	57.75
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**Glutathione**Glutinal; C<sub>10</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>S

F.W. 307.30

CAS: 70-18-8

Color: White

Solubility in Water: Soluble in water

Shelf Life: 2 years

**MODERATE HAZARD****SOLID**

<b>S25699</b>	1g	33.00
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**Glycerin**Glycerol; C<sub>3</sub>H<sub>8</sub>(OH)<sub>3</sub>

F.W. 92.1

CAS: 56-81-5

Color: Clear

Solubility in Water: Miscible in water

Shelf Life: 5 years

**MODERATE HAZARD****ACS GRADE - LIQUID**

<b>S25342A</b>	500mL	8.15
<b>S25342D</b>	4L	37.00

**LAB GRADE - LIQUID**

<b>S25342</b>	50mL	9.85
<b>S25342B</b>	1L	23.00
<b>S25342C</b>	4L	82.00

**Glycine**Aminoacetic Acid; NH<sub>2</sub>CH<sub>2</sub>COOH

F.W. 75.05

CAS: 56-40-6

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

**MODERATE HAZARD****SOLID**

<b>S25696</b>	100g	14.75
<b>S25696A</b>	500g	39.50

**Glycogen**Animal Starch; (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>

F.W. 176.15

CAS: 9005-79-2

Color: White

Shelf Life: 5 years

**MODERATE HAZARD****POWDER**

<b>S25343</b>	5g	84.00
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## Glyoxal

Biformal; Diformal; OCHCHO

F.W. 58.04

CAS: 107-22-2

Color: Clear

Solubility in Water: Miscible

Shelf Life: 2 years

### SOLUTION

S25698 25mL 9.40

MODERATE HAZARD

## Graphite

Black Lead; C

F.W. 12.00

CAS: 7782-42-5

Color: Green, blue, steel gray or black

Solubility in Water: Insoluble in water

Shelf Life: 5 years

### SOLID

S25345 500g 20.75

MODERATE HAZARD

## Guar Gum

Animal Starch

CAS: 9000-30-0

Color: Yellowish-white

Solubility in Water: Soluble

Shelf Life: 5 years

### SOLID

S25346 100g 15.75

S25346A 500g 25.50

MODERATE HAZARD

## Hematoxylin

Hematoxiline; C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>

F.W. 302.27

CAS: 517-28-2

Color: White to Yellow

Solubility in Water: Soluble in hot water

Shelf Life: 2 years

### SOLID

S25347 25g 67.00

MODERATE HAZARD

## Heptane

N-Heptane; C<sub>7</sub>H<sub>16</sub>

F.W. 100.21

CAS: 142-82-5

Color: Clear, Colorless

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

### SOLUTION

S25348 500mL 24.75

FLAMMABLE

## 1,6-Hexamethyldiamine, 0.5M Solution

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8, II: Corrosive

### 0.5M

S25349 250mL 56.00

CORROSIVE

## 1,6-Hexamethyldiamine

1, 6-Diaminohexane; H<sub>2</sub>N(CH<sub>2</sub>)<sub>6</sub>NH<sub>2</sub>

F.W. 116.20

CAS: 124-09-4

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8, III: Corrosive

### SOLID

S25350 100g 22.00

CORROSIVE

## Hexanes

C<sub>6</sub>H<sub>14</sub>

F.W. 86.18

CAS: 110-54-3

Color: Clear, colorless

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

### ACS GRADE

S25352A 4L 59.00

### LAB GRADE

S25352 1L 43.00

### REAGENT GRADE

S25351 500mL 12.75

FLAMMABLE

## Hexyl Alcohol

1-Hexanol; CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>OH

F.W. 102.18

CAS: 111-27-3

Color: Clear

Solubility in Water: Slightly soluble in water

Shelf Life: 5 years

DOT Class 3, III: Flammable Liquid

### SOLUTION

S25701 100mL 18.50

S25701A 500mL 57.75

FLAMMABLE

## Hydrochloric Acid Solution, 1.0N

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, III: Corrosive

### 1N

S25356 500mL 6.30

S25356A 1L 11.00

S25908 4L 40.50

CORROSIVE

## Hydrochloric Acid Solutions

F.W. 36.46

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, III: Corrosive

### 0.25M

S25855 500mL 7.50

### 0.5N

S25357 1L 8.85

CORROSIVE

## Hydrochloric Acid Solutions, Various

Color: Clear

Solubility in Water: Soluble in water

DOT Class 8, III: Corrosive

### 3M

S25856 500mL 9.80

### 6M

S25857 500mL 9.30

### 8% V/V

S25355 3mL 4.85

CORROSIVE

## Hydrochloric Acid, ACS, 12M

Hydrogen Chloride; HCl

F.W. 36.46

CAS: 7647-01-0

Solubility in Water: Infinite

Shelf Life: 2 years

DOT Class 8, II: Corrosive

### ACS GRADE

S25838 2.5L 35.50

### ACS GRADE - SAFE-COTE

S25358 500mL 17.50

S25838A 2.5L 59.75

CORROSIVE

## Hydrogen Peroxide, 30% Solution

Hydrogen Dioxide; H<sub>2</sub>O<sub>2</sub>

F.W. 34.01

CAS: 7722-84-1

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1 (8), II: Oxidizer

### 30%

S25360 500mL 29.50

REACTIVE & OXIDIZING

## Hydrogen Peroxide

Hydrogen Dioxide; H<sub>2</sub>O<sub>2</sub>

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 1 year

### LAB GRADE - 3% SOLUTION

S25359 500mL 5.35

S25359A 3.785L 19.25

### LAB GRADE - 6% SOLUTION

S25361A 500mL 8.65

### LAB GRADE - 6% SOLUTION - STABILIZED

S25361 500mL 12.25

MODERATE HAZARD

## Hydroquinone Crystals

1,4-Benzenediol; C<sub>6</sub>H<sub>4</sub>-1,4-(OH)<sub>2</sub>

F.W. 110.11

CAS: 123-31-9

Color: White to off-white

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 9, III: Miscellaneous

### LAB GRADE

S25362 500g 29.75

HEALTH HAZARD

Chemicals are educational grade and are intended for teaching use only. Not approved for clinical use.

**Indigo Carmine**Carmine Blue (Biological Stain);  $C_{16}H_8N_2Na_2O_8S_2$ 

F.W. 466.36

CAS: 860-22-0

Color: Dark blue

Solubility in Water: Slightly soluble in water

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25364</b>	5g	8.20
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**Invertase**

Yeast Enzyme

CAS: 9001-57-4

Color: White to tan

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

**POWDER**

<b>S25365</b>	10g	15.75
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**Iodine Potassium Iodide, 1.8%, Dilute Lugol's**

Color: Dark Brown

Solubility in Water: Infinite

MODERATE HAZARD

**1.80%**

<b>S25938</b>	100mL	25.00
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<b>S25939</b>	500mL	28.50
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**Iodine Solution 0.10N, 0.05M (Potassium Iodide)**

Color: Dark Brown

Solubility in Water: Infinite

MODERATE HAZARD

**0.05M**

<b>S25937</b>	10mL	48.00
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<b>S25940</b>	500mL	40.50
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**Iodine, Gram Stain Solution**

Grams Iodine Stain

Color: Dark Brown

Solubility in Water: Infinite

MODERATE HAZARD

**LIQUID**

<b>S25941</b>	30mL	38.50
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<b>S25942</b>	100mL	42.50
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<b>S25943</b>	500mL	36.00
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**Iodine, Tincture, approx. 2% Solution**

Tincture of Iodine

Color: Brown

Solubility in Water: Infinite

DOT Class 3, III: Flammable

FLAMMABLE

**LIQUID**

<b>S25944</b>	500mL	30.25
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**Iron Metal Powder**

Iron Dust; Fe

F.W. 55.85

CAS: 7439-89-6

Color: Black to gray

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 4.1, II: Flammable Solid

FLAMMABLE

**POWDER**

<b>S25370</b>	100g	9.70
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<b>S25370A</b>	500g	8.75
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<b>S25370B</b>	2.5kg	28.00
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**Iron, Filings**

Iron Powder; Fe

F.W. 55.85

CAS: 7439-89-6

Color: Black to gray

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 4.1, II: Flammable Solid

FLAMMABLE

**FINE**

<b>S25369</b>	100g	6.10
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<b>S25369A</b>	500g	6.95
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**LAB GRADE - FINE**

<b>S25369B</b>	500g	8.00
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**Isobutyl Alcohol**2-Methyl-1-Propanol;  $(CH_3)_2CHCH_2OH$ 

F.W. 74.12

CAS: 78-83-1

Color: Colorless

Solubility in Water: Partly soluble in water

Shelf Life: 5 years

DOT Class 3, III: Flammable Liquid

FLAMMABLE

**REAGENT GRADE**

<b>S25703</b>	500mL	20.75
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**Isopentyl Alcohol**Isoamyl Alcohol;  $(CH_3)_2CHCH_2CH_2OH$ 

F.W. 88.15

CAS: 123-51-3

Color: Colorless

Solubility in Water: Slightly soluble in water

Shelf Life: 2 years

DOT Class 3, III: Flammable Liquid

FLAMMABLE

**REAGENT GRADE**

<b>S25710</b>	100mL	17.00
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<b>S25710A</b>	500mL	37.75
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**Isopropyl Alcohol**Rubbing Alcohol;  $(CH_3)_2CHOH$ 

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

**70%**

<b>S25371</b>	500mL	8.00
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<b>S25371A</b>	4L	38.50
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**99%**

<b>S25372</b>	500mL	10.50
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<b>S25372A</b>	3.785L	45.50
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**Isovaleric Acid**Isopentanoic Acid;  $(CH_3)_2CHCH_2COOH$ 

F.W. 102.07

CAS: 503-74-2

Color: Colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

**SOLUTION**

<b>S25713</b>	25mL	20.75
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**Janus Green B** $C_{30}H_{51}ClN_6$ 

F.W. 511.07

CAS: 2869-83-2

Color: Green

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

**POWDER**

<b>S25718</b>	5g	52.75
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**Kerosene**

Lamp Oil

CAS: 8008-20-6

Color: Clear, colorless

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 3, III: Flammable Liquid

FLAMMABLE

**SOLUTION**

<b>S25373</b>	500mL	10.75
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**Lactic Acid, 85%**2-Hydroxypropanoic Acid;  $CH_3CHOHCOOH$ 

F.W. 90.08

CAS: 50-21-5

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, III: Corrosive

CORROSIVE

**85%**

<b>S25374</b>	100mL	11.50
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**Lactose, Monohydrate**Milk Sugar, Monohydrate;  $C_{12}H_{22}O_{11} \cdot H_2O$ 

F.W. 360.32

CAS: 64044-51-5

Color: White

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

<b>S25375</b>	100g	8.35
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<b>S25375A</b>	500g	15.25
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**Lanolin, Anhydrous**

Wool Fat

CAS: 8006-54-0

Color: Yellow

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25376</b>	100g	17.00
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### Lanthanum Nitrate

Lanthanum (III) Nitrate; La(NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O

F.W. 415.01

CAS: 15878-72-5

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

REACTIVE & OXIDIZING

#### CRYSTALS

S25745	25g	32.75
S25745A	100g	115.00

### Lanthanum Nitrate Solution, 0.1M

Color: Clear

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

#### LIQUID

S25746	100mL	19.50
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### Latex

Color: White

Shelf Life: 2 years

MODERATE HAZARD

#### SOLUTION

S25719	500mL	20.25
S25719A	1L	32.00
S25719B	4L	133.00

### Lauric Acid

Dodecanoic Acid; CH<sub>3</sub>(CH<sub>2</sub>)<sub>10</sub>COOH

F.W. 200.32

CAS: 143-07-7

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

#### REAGENT GRADE - FLAKES

S25377	100g	11.00
S25377A	500g	17.75

### Lead

Lead Metal; Pb

F.W. 207.2

CAS: 7439-92-1

Color: Bluish white/silvery gray

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

#### SHEET - 12 x 12 x 0.6"

S25383A***	Ea.	31.25
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#### SHEET - 6.5 x 6.5 x 0.03"

S25383B***	Ea.	13.25
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### Lead Acetate, Trihydrate

Lead Sugar; Pb(C<sub>2</sub>H<sub>3</sub>O<sub>2</sub>)<sub>2</sub>·3H<sub>2</sub>O

F.W. 379.33

CAS: 6080-56-4

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 6.1, III: *Poison*

HEALTH HAZARD

#### POWDER

S25378	100g	11.75
S25378A	500g	21.00

### Lead Chloride

Lead Dichloride; PbCl<sub>2</sub>

F.W. 278.11

CAS: 7758-95-4

Color: White to off-white

Solubility in Water: Slightly soluble

Shelf Life: 5 years

DOT Class 6.1, III: *Poison*

HEALTH HAZARD

#### REAGENT GRADE - POWDER

S25379	100g	18.50
S25379A	500g	48.75

### Lead Dioxide

Lead Peroxide; PbO<sub>2</sub>

F.W. 239.21

CAS: 1309-60-0

Color: Dark brown-black

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 5.1, III: *Oxidizer*

REACTIVE & OXIDIZING

#### SOLID

S25380	100g	12.00
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### Lead Nitrate

Lead Dinitrate; Pb(NO<sub>3</sub>)<sub>2</sub>

F.W. 331.20

CAS: 10099-74-8

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 5.1(6.1), II: *Oxidizer*

REACTIVE & OXIDIZING

#### LAB GRADE - CRYSTALS

S25381	500g	21.50
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#### REAGENT GRADE - CRYSTALS

S25382	100g	8.90
S25382A	2.5kg	76.00

### Lead Nitrate Solution, 0.1M

Color: Clear

Solubility in Water: Soluble in water

MODERATE HAZARD

#### 0.1M

S25858	500mL	7.95
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### Lead Nitrate Solution, 1M

Color: Clear, colorless

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 5.1(6.1), II: *Oxidizer*

REACTIVE & OXIDIZING

#### 1M

S25383	500mL	8.25
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### Lemon Juice

Color: Clear to yellowish

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

#### SOLUTION

S25385	500mL	7.05
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### Licorice Extract

Glycyrrhiza Extract

Color: Brown

Solubility in Water: Soluble in hot water

Shelf Life: 2 years

MODERATE HAZARD

#### POWDER

S25740	25g	6.60
S25740A	100g	13.00

### Lime Water

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

#### SOLUTION

S25386	500mL	4.90
S25386A	3.785L	12.00

### Linseed Oil, Boiled

Flaxseed Oil

CAS: 8001-26-1

Color: Yellow to brown

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

#### SOLUTION

S25387	500mL	20.25
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### Lipase Powder

Triacylglycerol Hydrolase

CAS: 9001-62-1

Color: Beige

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

#### POWDER

S25731	25g	20.75
S25731A	100g	58.25

### Lithium

Lithium Element; Li

F.W. 6.94

CAS: 7439-93-2

Color: Silver white

Solubility in Water: Reacts violently

Shelf Life: 5 years

DOT Class 4.3, I: *Dangerous When Wet*

Reacts with water or moisture

FLAMMABLE

#### SOLID-METAL RODS

S25391	25g	68.75
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Chemicals are educational grade and are intended for teaching use only. Not approved for clinical use.

 \* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Lithium Carbonate**Carbonic Acid Dilithium Salt; Li<sub>2</sub>CO<sub>3</sub>

F.W. 73.89

CAS: 554-13-2

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

**LAB GRADE**

S25388\*\* 100g 21.25

**REAGENT GRADE**

S25388A\*\* 100g 20.50

**Lithium Chloride**

Lithium Monochloride; LiCl

F.W. 42.39

CAS: 7447-41-8

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

**LAB GRADE**

S25389A 100g 19.75

**REAGENT GRADE**

S25389 100g 15.75

S25389B 500g 47.75

**Lithium Chloride Solution, 1M**

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

**1M**

S25390 500mL 7.40

**Lithium Nitrate**Nitric Acid, Lithium Salt; LiNO<sub>3</sub>

F.W. 68.95

CAS: 7790-69-4

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 5.1, III: Oxidizer

REACTIVE &amp; OXIDIZING

**REAGENT GRADE**

S25392 100g 21.25

S25392A 500g 68.25

**Litmus**

CAS: 1393-92-6

Color: Blue

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**POWDER**

S25747 10g 11.50

S25747A 25g 20.00

**Litmus Solution, 0.5%**

Color: Blue

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**0.5%**

S25749 500mL 17.75

**Loading Dye 10X**

Color: Clear Blue

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

**SOLUTION**

S25393 5mL 13.25

**Lugol's Dilute Solution, 2%**

Color: Dark Brown

Solubility in Water: Infinite

MODERATE HAZARD

**2%**

S25945 500mL 28.00

**Luminol**3-Aminophthalhydrazide.; C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>O<sub>2</sub>

F.W. 177.17

CAS: 521-31-3

Color: Yellow

Solubility in Water: Insoluble

Shelf Life: 1 year

MODERATE HAZARD

**SOLID**

S25395A 1g 10.50

S25395 5g 28.25

**Lycopodium**

Club Moss Spores

CAS: 8023-70-9

Color: Off-white

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.1, III: Flammable Solid

FLAMMABLE

**SOLID**

S25396 25g 11.00

S25396A 100g 27.00

S25396B 500g 106.00

**Lysozyme**

CAS: 12650-88-3

Color: White

Shelf Life: 2 years

MODERATE HAZARD

**SOLID**

S25750 1g 41.50

**Magnesium Bromide, Hexahydrate**MgBr<sub>2</sub>·6H<sub>2</sub>O

F.W. 292.25

CAS: 13446-53-2

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

**LAB GRADE**

S25398 100g 31.25

S25398A 500g 57.00

**Magnesium Carbonate, Pentahydrate**Magnesite; 4Mg(CO<sub>3</sub>)-Mg(OH)<sub>2</sub>·5H<sub>2</sub>O

CAS: 39409-82-0

Color: White

Solubility in Water: Insoluble in water

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

S25400 100g 12.25

**REAGENT GRADE**

S25399 100g 17.00

S25399A 500g 22.50

**Magnesium Chloride, Hexahydrate**Magnesium Dichloride Hexahydrate; MgCl<sub>2</sub>·6H<sub>2</sub>O

F.W. 203.33

CAS: 7791-18-6

Color: White to slightly gray

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

**LAB GRADE**

S25403 500g 12.75

**REAGENT GRADE**

S25401 100g 10.75

S25401A 500g 18.50

**Magnesium Hydroxide**Milk of Magnesia; Mg(OH)<sub>2</sub>

F.W. 58.33

CAS: 1309-42-8

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

S25406 100g 3.20

S25406A 500g 18.50

**Magnesium Metal**

Mg

F.W. 24.31

CAS: 7439-95-4

Color: Silver White

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 4.1, III: Flammable Solid

FLAMMABLE

**LAB GRADE - RIBBON**

S25397 50g 14.25

**TURNINGS**

S25397A 2.5g 12.00

S25411 25g 13.25

S25411A 100g 18.75

S25411B 500g 58.75



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\*\* California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

\*\*\* California - WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

**Magnesium Nitrate, Hexahydrate**Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O

F.W. 256.43

CAS: 13446-18-9

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 5.1, III: Oxidizer

LAB GRADE		
S25412A	500g	13.75
REAGENT GRADE		
S25412	100g	8.60

REACTIVE &amp; OXIDIZING

**Magnesium Oxide**

Magnesia; MgO

F.W. 40.3

CAS: 1309-48-4

Color: Silver white

Solubility in Water: Slightly

Shelf Life: 2 years

REAGENT GRADE		
S25413	100g	11.00

MODERATE HAZARD

**Magnesium Powder**

Mg

F.W. 24.31

CAS: 7439-95-4

Color: Silver white

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.3, 4.2, II: Spontaneously Combustible; Dangerous When Wet

LAB GRADE		
S25409	25g	8.80
S25407	100g	17.75
REAGENT GRADE		
S25409A	100g	8.45
S25409B	500g	50.50

FLAMMABLE

**Magnesium Sulfate, Anhydrous**Bitter Salt; MgSO<sub>4</sub>

F.W. 120.37

CAS: 7487-88-9

Color: Off-white

Solubility in Water: Soluble

Shelf Life: 1 year

SOLID		
S25414B	500g	40.00

MODERATE HAZARD

**Magnesium Sulfate, Heptahydrate**Epsom Salts, Heptahydrate; MgSO<sub>4</sub>·7H<sub>2</sub>O

F.W. 246.50

CAS: 10034-99-8

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 1 year

SOLID		
S25414	500g	23.75
S25414A	2.5kg	24.25

MODERATE HAZARD

**Maleic Acid**Butenedioic Acid; HO<sub>2</sub>CCH:CHCO<sub>2</sub>H

F.W. 116.07

CAS: 110-16-7

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8, III: Corrosive

SOLID		
S25415	200g	22.75
S25415A	250g	23.00

CORROSIVE

**Malonic Acid**Carboxyacetic Acid; HO<sub>2</sub>CCH<sub>2</sub>CO<sub>2</sub>H

F.W. 104.06

CAS: 141-82-2

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25416	25g	11.00
S25416A	100g	103.00

MODERATE HAZARD

**Maltose, Monohydrate**C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O

F.W. 360.32

CAS: 6363-53-7

Color: White/colorless

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25417	100g	9.85

MODERATE HAZARD

**Manganese Dioxide**Manganese (IV) Oxide; MnO<sub>2</sub>

F.W. 86.94

CAS: 1313-13-9

Color: Black

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 5.1, II: Oxidizer

LAB GRADE		
S25420	100g	14.50
S25420A	500g	10.00
REAGENT GRADE		
S25419	100g	15.25

REACTIVE &amp; OXIDIZING

**Manganese Nitrate Solution, 50%**

Maganon Nitrate Solution

Color: Clear, reddish-orange

Solubility in Water: Complete

Shelf Life: 2 years

DOT Class 5.1 (8), III: Oxidizer

50%		
S25421	100mL	11.50
S25421A	500mL	26.00

REACTIVE &amp; OXIDIZING

**Manganous Chloride, Tetrahydrate**Manganese (II) Chloride Tetrahydrate; MnCl<sub>2</sub>·4H<sub>2</sub>O

F.W. 197.91

CAS: 13446-34-9

Color: Pink

Solubility in Water: Soluble

Shelf Life: 1 year

REAGENT GRADE		
S25418	100g	11.75

MODERATE HAZARD

**Manganous Sulfate**Manganese (II) Sulfate Monohydrate; MnSO<sub>4</sub>·H<sub>2</sub>O

F.W. 169.01

CAS: 10034-96-5

Color: Light red

Solubility in Water: Soluble

Shelf Life: 2 years

LAB GRADE		
S25422	500g	27.75

MODERATE HAZARD

**Melibiose**A-D-Melibiose; C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O

F.W. 360.32

CAS: 66009-10-7

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25752	2.5g	35.00

MODERATE HAZARD

**Menthol**P-Menthan-3-ol; C<sub>10</sub>H<sub>20</sub>O

F.W. 156.26

CAS: 89-78-1

Color: White

Solubility in Water: Soluble in alcohol, chloroform, ether

Shelf Life: 5 years

SOLID		
S25751	25g	10.50
S25751A	100g	47.75

MODERATE HAZARD

**Mercuric Chloride**Mercury (II) Chloride; HgCl<sub>2</sub>

F.W. 271.50

CAS: 7487-94-7

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1, II: Poison

ACS GRADE - CRYSTALS		
S25423**	100g	40.50

HEALTH HAZARD

Chemicals are educational grade and are intended for teaching use only.  
Not approved for clinical use.

**Mercuric Iodide**Mercury (II) Iodide; HgI<sub>2</sub>

F.W. 454.40

CAS: 7774-29-0

Color: Red

**Solubility in Water:** Insoluble

Shelf Life: 5 years

DOT Class 6.1, II: *Poison*

ACS GRADE		
S25424**	25g	16.25

HEALTH HAZARD

**Mercuric Oxide**

Yellow Oxide of Mercury; HgO

F.W. 216.59

CAS: 21908-53-2

Color: Yellow to orange-yellow

**Solubility in Water:** Insoluble

Shelf Life: 5 years

DOT Class 6.1, II: *Poison*

ACS GRADE		
S25425	25g	13.25

HEALTH HAZARD

**Methanol**Methyl Alcohol; CH<sub>3</sub>OH

F.W. 32.04

CAS: 67-56-1

Color: Clear, colorless

**Solubility in Water:** Miscible in water

Shelf Life: 2 years

DOT Class 3, II: *Flammable Liquid*

LAB GRADE		
S25426A**	4L	25.00
REAGENT GRADE		
S25426**	500mL	12.25

FLAMMABLE

**Methyl Cellulose**

Cellulose Methylate

CAS: 9004-67-5

Color: White to off-white

**Solubility in Water:** Soluble

Shelf Life: 2 years

SOLID		
S25427	100g	17.00

MODERATE HAZARD

**Methyl Cellulose Solution, 1.5%**

Color: Clear, Colorless

**Solubility in Water:** Soluble

Shelf Life: 2 years

1.5%		
S25428	20mL	14.25

MODERATE HAZARD

**Methyl Orange Indicator**Orange III; C<sub>14</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>Na

F.W. 327.34

CAS: 547-58-0

Color: Orange

**Solubility in Water:** Soluble

Shelf Life: 5 years

DOT Class 6.1, III: *Poison*

REAGENT GRADE		
S25433	10g	11.50
S25433A	25g	11.75

HEALTH HAZARD

**Methyl Red Indicator**Sodium Salt; C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>Na

F.W. 291.28

CAS: 845-10-3

Color: Orange

**Solubility in Water:** Soluble

Shelf Life: 5 years

SOLID		
S25434	10g	11.00
S25434A	25g	21.50

MODERATE HAZARD

**Methyl Red Indicator Solution, 0.02%**

Color: Orange

**Solubility in Water:** Soluble

Shelf Life: 18 months

DOT Class 3, II: *Flammable Liquid*

0.02%		
S25435	500mL	7.65

FLAMMABLE

**Methyl Salicylate**Wintergreen Oil; C<sub>8</sub>H<sub>8</sub>O<sub>3</sub>

F.W. 152.15

CAS: 119-36-8

Color: Colorless to yellow-red

**Solubility in Water:** Slightly soluble in water

Shelf Life: 5 years

SOLUTION		
S25437	100mL	15.25

MODERATE HAZARD

**Methyl Violet**Methyl Violet 2B; C<sub>24</sub>H<sub>26</sub>ClN<sub>3</sub>

F.W. 393.94

CAS: 8004-87-3

Color: Blue-green

**Solubility in Water:** Soluble in water

Shelf Life: 5 years

SOLID		
S25436	10g	11.00
S25436A	25g	14.00

MODERATE HAZARD

**Methylene Blue**Methylene Blue Chloride; C<sub>16</sub>H<sub>18</sub>ClN<sub>3</sub>S·3H<sub>2</sub>O

F.W. 373.90

CAS: 7220-79-3

Color: Dark green

**Solubility in Water:** Soluble

Shelf Life: 5 years

SOLID		
S25429	10g	11.50
S25429A	25g	16.75

MODERATE HAZARD

**Methylene Blue (Loeffler's)**

Color: Blue

**Solubility in Water:** Soluble

Shelf Life: 2 years

DOT Class 3, II: *Flammable Liquid*

SOLUTION		
S25432	500mL	15.50

FLAMMABLE

**Methylene Blue Solution, 1%**

Color: Dark blue

**Solubility in Water:** Soluble

Shelf Life: 18 months

1%		
S25430	15mL	5.00
S25431	100mL	5.40
S25431A	500mL	10.75

MODERATE HAZARD

**Mineral Oil**

Bath Oil

CAS: 8042-47-5

Color: White

**Solubility in Water:** Insoluble

Shelf Life: 5 years

HEAVY		
S25440	500mL	15.75
LIGHT		
S25439	500mL	10.25
S25439A	4L	52.50

MODERATE HAZARD

**Molasses**

Color: Brown

Shelf Life: 2 years

SOLUTION		
S25753	300mL	7.55

MODERATE HAZARD

**Molisch Reagent**

Color: Colorless

**Solubility in Water:** Infinite

Shelf Life: 2 years

DOT Class 3, II: *Flammable Liquid*

SOLUTION		
S25754	100mL	12.75

FLAMMABLE

**Molybdenum (IV) Oxide**Molybdenum Trioxide; MoO<sub>3</sub>

F.W. 143.94

CAS: 18868-43-4

Color: Gray

Shelf Life: 2 years

DOT Class 6.1, III: *Poison*

SOLID		
S25755	10g	24.75

HEALTH HAZARD

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**Murexide**Ammonium Pupurate Acid;  $C_8H_8N_6O_6$ 

F.W. 284.09

CAS: 3051-09-0

Color: Red-Purple

Solubility in Water: Slightly soluble in water

Shelf Life: 2 years

**SOLID**

<b>S25756</b>	2g	14.75
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MODERATE HAZARD

**Naphthalene**Tar Camphor;  $C_{10}H_8$ 

F.W. 128.17

CAS: 91-20-3

Color: White

Solubility in Water: Insoluble

Shelf Life: 2 years

DOT Class 4.1, III: *Flammable Solid***REAGENT GRADE**

<b>S25441*</b>	100g	8.70
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<b>S25441A*</b>	500g	21.50
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FLAMMABLE

**Nickel**

Nickel Metal Shot; Ni

F.W. 58.69

CAS: 7440-02-0

Color: White to gray-white

Shelf Life: 5 years

**SOLID**

<b>S25444*</b>	50g	16.25
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<b>S25444A*</b>	500g	91.00
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MODERATE HAZARD

**Nickel (II) Chloride, Hexahydrate**Nickel Dichloride;  $NiCl_2 \cdot 6H_2O$ 

F.W. 237.72

CAS: 7791-20-0

Color: Green

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 6.1, III: *Poison***REAGENT GRADE**

<b>S25442*</b>	100g	20.50
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<b>S25442A*</b>	500g	88.00
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HEALTH HAZARD

**Nickel (II) Nitrate, Hexahydrate**Nickelous Nitrate Hexahydrate;  $Ni(NO_3)_2 \cdot 6H_2O$ 

F.W. 290.82

CAS: 13478-00-7

Color: Emerald green

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, III: *Oxidizer***REAGENT GRADE**

<b>S25443</b>	100g	15.00
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<b>S25443A</b>	500g	47.75
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REACTIVE &amp; OXIDIZING

**Nickel (II) Sulfate, Hexahydrate**Nickeous Sulfate Crystal;  $NiSO_4 \cdot 6H_2O$ 

F.W. 262.87

CAS: 10101-97-0

Color: Blue-green

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1, III: *Poison***REAGENT GRADE**

<b>S25445</b>	100g	18.50
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<b>S25445A</b>	500g	55.00
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HEALTH HAZARD

**Nicotine Solution**

Cigarette Water Extract

Color: Brownish Tan

Solubility in Water: Complete

Shelf Life: 1 year

Nicotine of approximately 1 cigarette

**SOLUTION**

<b>S25446</b>	100mL	12.00
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MODERATE HAZARD

**Nigrosin Saturated Aqueous Solution**

Nigrosine Biological Stain

Color: Dark blue-violet

Solubility in Water: Infinite

Shelf Life: 5 years

**SOLUTION**

<b>S25447</b>	100mL	14.25
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MODERATE HAZARD

**Ninhydrin**1, 2, 3 -Indantrione Monohydrate;  $C_8H_7 \cdot 1,2-(CO)_2 \cdot CO \cdot H_2O$ 

F.W. 178.14

CAS: 485-47-2

Color: Slightly yellow

Solubility in Water: Soluble

Shelf Life: 5 years

**SOLID**

<b>S25448</b>	10g	18.75
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MODERATE HAZARD

**Nitric Acid Solution, 0.1M**

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 2 years

**0.1M**

<b>S25859</b>	500mL	7.90
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MODERATE HAZARD

**Nitric Acid Solution, 1M/3M**

Color: Clear to yellow

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: *Corrosive***1M**

<b>S25449B</b>	500mL	9.65
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**3M**

<b>S25860</b>	500mL	13.50
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CORROSIVE

**Nitric Acid Solution, 6M**

Color: Clear to yellow

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: *Corrosive***6M**

<b>S25449A</b>	500mL	25.00
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CORROSIVE

**Nitric Acid Solution, 15.8M, Concentrated**Hydrogen Nitrate;  $HNO_3$ 

F.W. 63.02

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: *Corrosive***ACS GRADE - NON-SAFECOTE**

<b>S25906</b>	500mL	36.00
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**ACS GRADE - SAFECOTE**

<b>S25449C</b>	2.5L	49.75
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CORROSIVE

**o-Nitrobenzaldehyde**2-Nitrobenzaldehyde;  $C_7H_5NO_3$ 

F.W. 151.04

CAS: 552-89-6

Color: Yellow

Solubility in Water: Slightly soluble in water

Shelf Life: 5 years

**POWDER**

<b>S25758</b>	10g	24.25
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MODERATE HAZARD

**Nutrient Broth**

Color: Beige

Solubility in Water: Soluble in water

Shelf Life: 5 years

**POWDER**

<b>S25759</b>	8g	9.75
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<b>S25759A</b>	100g	33.50
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<b>S25759B</b>	500g	128.00
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MODERATE HAZARD

**1-Octadecanol**Stearyl Alcohol;  $CH_3(CH_2)_{16}CH_2OH$ 

F.W. 270.50

CAS: 112-92-5

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

**SOLID**

<b>S25777</b>	100g	15.25
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<b>S25777A</b>	500g	49.00
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MODERATE HAZARD

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Not approved for clinical use.

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**1-Octanol**n-Octyl Alcohol;  $\text{CH}_3(\text{CH}_2)_7\text{OH}$ 

F.W. 130.23

CAS: 111-87-5

Color: Clear, colorless

Solubility in Water: Insoluble

Shelf Life: 2 years

MODERATE HAZARD

**REAGENT GRADE**

<b>S25450B</b>	50mL	8.85
<b>S25450A</b>	100mL	14.25
<b>S25450</b>	500mL	32.25

**2-Octanol**Capryl Alcohol;  $\text{CH}_3(\text{CH}_2)_5\text{CH}(\text{OH})\text{CH}_3$ 

F.W. 130.23

CAS: 123-96-6

Color: Colorless

Solubility in Water: Slightly

Shelf Life: 2 years

DOT Class 6.1, III: *Poison*

HEALTH HAZARD

**SOLUTION**

<b>S25775</b>	100mL	17.75
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**Oleic Acid**Cis-9-Octadecenoic Acid;  $\text{C}_{18}\text{H}_{34}\text{O}_2$ 

F.W. 282.47

CAS: 112-80-1

Color: Colorless to pale red

Solubility in Water: Insoluble

Shelf Life: 1 year

MODERATE HAZARD

**LAB GRADE**

<b>S25451</b>	100mL	10.25
<b>S25451A</b>	500mL	19.00

**Olive Oil**

CAS: 8001-25-0

Color: Yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLUTION**

<b>S25452</b>	500mL	17.00
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**Onion's Fusible Alloy**

Color: White

Solubility in Water: Insoluble in water

Shelf Life: 5 years

MODERATE HAZARD

**METAL**

<b>S25776A</b>	100g	24.75
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**Orange G, Biological Stain**

Acid Fast Orange G

F.W. 452.18

CAS: 1936-15-8

Color: Yellow-red to orange

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25453</b>	25g	20.50
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**Orcein Biological Stain**

F.W. 500.18

CAS: 1400-62-0

Color: Dark red-brown

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25454</b>	1g	12.50
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**Oxalic Acid, Dihydrate**Ethanedioic Acid Dehydrate;  $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ 

F.W. 126.07

CAS: 6153-56-6

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8 (6.1), II: *Corrosive*

CORROSIVE

**LAB GRADE - SOLID**

<b>S25455</b>	500g	15.00
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**Palmitic Acid**Hexadecanoic Acid;  $\text{CH}_3(\text{CH}_2)_{14}\text{CO}_2\text{H}$ 

F.W. 256.43

CAS: 57-10-3

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**FLAKES**

<b>S25763</b>	100g	23.25
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**Pancreatin**

CAS: 8049-47-6

Solubility in Water: Slightly soluble

MODERATE HAZARD

**LAB GRADE**

<b>S25456</b>	100g	14.00
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**Papain**

CAS: 9001-73-4

Color: White

Solubility in Water: Partly soluble in water

Shelf Life: 2 years

MODERATE HAZARD

**SOLID**

<b>S25764</b>	10g	22.75
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**Paraffin Wax (Cake)**

CAS: 8002-74-2

Color: Clear or White

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25646</b>	454g	11.00
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**Peanut Oil**

Arachis Oil

CAS: 8002-03-7

Color: Colorless

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLUTION**

<b>S25760</b>	500mL	15.75
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**Pentane** $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$ 

CAS: 109-66-0

Color: Colorless

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 3, I: *Flammable Liquid*

FLAMMABLE

**REAGENT GRADE**

<b>S25457</b>	100mL	9.15
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**Peppermint Oil**

CAS: 8006-90-4

Color: Colorless

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLUTION**

<b>S25458</b>	25mL	17.25
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**Pepsin Powder**

CAS: 9001-75-6

Color: White/yellow

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**POWDER**

<b>S25459</b>	30g	11.00
<b>S25459A</b>	100g	32.75

**Peptone**

CAS: 73049-73-7

Color: Yellow

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25761</b>	25g	11.50
<b>S25761A</b>	100g	15.00
<b>S25761B</b>	500g	59.00

**Petrolatum**

Petroleum Jelly

CAS: 8009-03-8

Color: White to yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25460</b>	500g	14.00
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**Petroleum Ether**

Ligroine

CAS: 8032-32-4

Color: Clear

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 3, II: *Flammable Liquid*

FLAMMABLE

**ACS GRADE**

<b>S25461B</b>	1 lb.	26.50
<b>S25461</b>	100mL	9.90
<b>S25461A</b>	500mL	14.50

## pH Buffer Solutions (pH 1 to pH 12)

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 2 years

MODERATE HAZARD

pH 1		
S25208	500mL	16.00
pH 2		
S25208A	500mL	15.25
pH 3		
S25208B	500mL	15.25
pH 4		
S25208C	500mL	15.25
pH 5		
S25208D	500mL	15.25
pH 6		
S25208E	500mL	15.25
pH 7		
S25208F	500mL	15.25
pH 8		
S25208G	500mL	15.25
pH 9		
S25208H	500mL	15.25
pH 10		
S25208I	500mL	15.25
pH 11		
S25208J	500mL	15.25
pH 12		
S25208K	500mL	15.25

## pH Buffer Solutions (pH 4.00, pH 7.00, pH 10.00)

Color: Yellow

Solubility in Water: Infinite

Moderate Hazard

MODERATE HAZARD

pH 4.0: RED		
S25849A	500mL	7.40
pH 7.0: YELLOW		
S25849B	500mL	7.40
pH 10.0: BLUE		
S25849	500mL	7.40

## 1,10-Phenanthroline Monohydrate

C<sub>12</sub>H<sub>8</sub>N<sub>2</sub> · H<sub>2</sub>O

F.W. 198.21

CAS: 5144-89-8

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 6.1, III: *Poison*

HEALTH HAZARD

REAGENT GRADE		
S25461C	5g	60.25

## Phenol

Carbolic Acid; C<sub>6</sub>H<sub>5</sub>OH

F.W. 94.11

CAS: 108-95-2

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 6.1, II: *Poison*

HEALTH HAZARD

LAB GRADE		
S25462	100g	32.25
S25462A	500g	90.00

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Not approved for clinical use.

## Phenol Solution

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 6.1, II: *Poison*

HEALTH HAZARD

SOLUTION		
S25463	100mL	18.75

## Phenol Red Indicator

Phenolsulfonephthalein Sodium; C<sub>19</sub>H<sub>13</sub>NaO<sub>5</sub>S

F.W. 376.36

CAS: 34487-61-1

Color: Red

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

ACS GRADE		
S25465	10g	18.25

## Phenol Red Indicator Solution, 0.02% w/v

Color: Red

Solubility in Water: Soluble

Shelf Life: 18 months

MODERATE HAZARD

0.02%		
S25464	100mL	4.65
S25464A	500mL	11.00

## Phenolphthalein in IPA Solution

Color: Clear, colorless to slight pink

Solubility in Water: Infinite

Shelf Life: 2 years

DOT Class 3, II: *Flammable Liquid*

FLAMMABLE

0.5%		
S25468A	100mL	5.20
S25468	500mL	7.75
1%		
S25467	100mL	5.35
S25467A	500mL	7.70

## Phenolphthalein Indicator

3,3-Bis(4-Hydroxyphenyl)-1(3H)-Isobenzofuranone; C<sub>20</sub>H<sub>14</sub>O<sub>4</sub>

F.W. 318.33

CAS: 77-09-8

Color: Off-white

Solubility in Water: Insoluble in water

Shelf Life: 5 years

MODERATE HAZARD

REAGENT GRADE - POWDER		
S25466	25g	8.90
S25466A	100g	19.50

## Phenyl Salicylate

Salol; 2-HOC<sub>6</sub>H<sub>4</sub>-1-CO<sub>2</sub>C<sub>6</sub>H<sub>5</sub>

F.W. 214.22

CAS: 118-55-8

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

SOLID		
S25469	100g	14.50
S25469A	500g	62.75

## Phloroglucinol, Dihydrate

C<sub>6</sub>H<sub>3</sub>-1,3,5-(OH)<sub>3</sub>-2H<sub>2</sub>O

F.W. 162.07

CAS: 6099-90-7

Color: White/off-white

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

SOLID		
S25471	25g	16.00

## Phosphate Buffer Solution, 0.1M

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 2 years

MODERATE HAZARD

0.1M		
S25472	60mL	5.30

## o-Phosphoric Acid Solution, 85%

Orthophosphoric acid; H<sub>3</sub>PO<sub>4</sub>;

F.W. 98

CAS: 7664-38-2

Color: Clear, colorless

Solubility in Water: Complete

Shelf Life: 2 years

DOT Class 8, III: *Corrosive*

CORROSIVE

ACS GRADE		
S25470	100mL	14.75
S25470A	1L	62.25
REAGENT GRADE		
S25470B	2.5L	74.00

## Polysnow

Sodium Polyacrylic

CAS: 9033-79-8

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

MODERATE HAZARD

SOLID		
S25774A	100g	15.75

## Polyvinyl Alcohol

Ethanol; [CH<sub>2</sub>CH(OH)]<sub>n</sub>

F.W. 165.00

CAS: 9002-89-5

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

LAB GRADE		
S25473	25g	9.00
S25473A	100g	13.75
S25473B	500g	28.00

THICK GEL - 4% SOLUTION		
S25474	100mL	20.50

### Potassium Bicarbonate

Baking Soda;  $\text{KHCO}_3$

**F.W.** 100.12

**CAS:** 298-14-6

**Color:** White

**Solubility in Water:** Soluble

**Shelf Life:** 1 year

MODERATE HAZARD

#### REAGENT GRADE

<b>S25475</b>	100g	9.00
<b>S25475A</b>	500g	17.75

### Potassium Bisulfate

Potassium Hydrogen Sulfate;  $\text{KHSO}_4$

**F.W.** 136.17

**CAS:** 7646-93-7

**Color:** White

**Solubility in Water:** Soluble

**Shelf Life:** 1 year

**DOT Class 8, II:** Corrosive

CORROSIVE

#### SOLID

<b>S25476</b>	100g	13.25
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### Potassium Bitartrate

Cream of Tartar;  $\text{KHC}_4\text{H}_4\text{O}_6$

**F.W.** 188.18

**CAS:** 868-14-4

**Color:** White

**Solubility in Water:** Partially

**Shelf Life:** 5 years

MODERATE HAZARD

#### REAGENT GRADE

<b>S25477</b>	100g	10.25
<b>S25477A</b>	500g	23.00

### Potassium Bromide

Hydrobromic Acid Potassium Salt;  $\text{KBr}$

**F.W.** 119.02

**CAS:** 7758-02-3

**Color:** White

**Solubility in Water:** Soluble

**Shelf Life:** 2 years

MODERATE HAZARD

#### REAGENT GRADE

<b>S25478</b>	500g	24.25
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### Potassium Carbonate, Anhydrous

Dipotassium Salt Of Carbonic Acid;  $\text{K}_2\text{CO}_3$

**F.W.** 138.21

**CAS:** 584-08-7

**Color:** White

**Solubility in Water:** Soluble

**Shelf Life:** 1 year

MODERATE HAZARD

#### LAB GRADE

<b>S25480</b>	500g	15.25
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### Potassium Carbonate, Sesquihydrate

Pearl Ash;  $\text{K}_2\text{CO}_3 \cdot 1.5\text{H}_2\text{O}$

**F.W.** 165.245g

**CAS:** 6381-79-9

**Color:** White

**Solubility in Water:** Soluble

**Shelf Life:** 5 years

MODERATE HAZARD

#### SOLID

<b>S25479</b>	500g	40.50
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### Potassium Chlorate

Salt of Tartar;  $\text{KClO}_3$

**F.W.** 122.55

**CAS:** 3811-04-9

**Color:** White

**Shelf Life:** 5 years

**DOT Class 5.1, II:** Oxidizer

REACTIVE & OXIDIZING

#### LAB GRADE

<b>S25482</b>	100g	9.25
<b>S25482A</b>	500g	19.50

### Potassium Chloride

KCl

**F.W.** 74.56

**CAS:** 7447-40-7

**Color:** White

**Solubility in Water:** Partially soluble

**Shelf Life:** 2 years

MODERATE HAZARD

#### REAGENT GRADE

<b>S25484</b>	100g	5.75
<b>S25484A</b>	500g	11.50

### Potassium Chloride Solutions

**Color:** Clear

**Solubility in Water:** Infinite

MODERATE HAZARD

#### 0.1M

<b>S25861</b>	500mL	7.80
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#### 4M

<b>S25485</b>	500mL	7.70
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### Potassium Chromate

Chromic Acid;  $\text{K}_2\text{CrO}_4$

**F.W.** 194.20

**CAS:** 7789-00-6

**Color:** Yellow

**Solubility in Water:** Soluble in water

**Shelf Life:** 5 years

**DOT Class 6.1 (5.1), II:** Poison

REACTIVE & OXIDIZING

#### LAB GRADE

<b>S25486A***</b>	500g	58.00
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#### REAGENT GRADE

<b>S25486***</b>	100g	14.25
<b>S25486B***</b>	500g	33.00

### Potassium Chromate Solution, 0.1M

Indicator for Chloride Determination

**Color:** Yellow

**Solubility in Water:** Soluble in water

MODERATE HAZARD

#### 0.1M

<b>S25862***</b>	500mL	6.75
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### Potassium Dichromate

Potassium Bichromate;  $\text{K}_2\text{Cr}_2\text{O}_7$

**F.W.** 294.19

**CAS:** 7778-50-9

**Color:** Orange

**Solubility in Water:** Soluble

**Shelf Life:** 5 years

**DOT Class 6.1, I:** Poison

REACTIVE & OXIDIZING

#### REAGENT GRADE

<b>S25487***</b>	100g	15.00
<b>S25487A***</b>	500g	36.75

### Potassium Ferricyanide

Potassium Prussiate;  $\text{K}_3\text{Fe}(\text{CN})_6$

**F.W.** 329.26

**CAS:** 13746-66-2

**Color:** Orange/red

**Solubility in Water:** Partly soluble in water

**Shelf Life:** 1 year

MODERATE HAZARD

#### SOLID

<b>S25488</b>	100g	11.50
<b>S25488A</b>	500g	35.00

### Potassium Ferrocyanide, Trihydrate

Potassium Hexacyanoferrate (II) Trihydrate;  $\text{K}_4\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$

**F.W.** 422.41

**CAS:** 14459-95-1

**Color:** Yellow

**Solubility in Water:** Soluble in water

**Shelf Life:** 1 year

MODERATE HAZARD

#### SOLID

<b>S25489</b>	100g	17.25
<b>S25489A</b>	500g	60.50

### Potassium Hydrogen Phthalate

Potassium Acid Phthalate;  $\text{KHC}_8\text{H}_4\text{O}_4$

**F.W.** 204.23

**CAS:** 877-24-7

**Color:** White

**Solubility in Water:** Soluble

**Shelf Life:** 5 years

MODERATE HAZARD

#### SOLID

<b>S25490</b>	100g	15.25
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## Potassium Hydroxide

Caustic Potash; KOH

F.W. 56.11

CAS: 1310-58-3

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 8, II: Corrosive

**CORROSIVE**

REAGENT GRADE		
S25491	100g	9.40
S25491A	500g	27.25

## Potassium Hydroxide Solution, 0.1M

Color: Clear

Solubility in Water: Soluble in water

**MODERATE HAZARD**

0.1M		
S25863	500mL	5.90

## Potassium Iodate

Iodic Acid, potassium salt; KIO<sub>3</sub>

F.W. 214.00

CAS: 7758-05-6

Color: White

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 5.1, II: Oxidizer

**REACTIVE & OXIDIZING**

LAB GRADE		
S25492B	500g	97.00
REAGENT GRADE		
S25492	25g	9.60
S25492A	100g	28.00

## Potassium Iodide

KI

F.W. 166.01

CAS: 7681-11-0

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

**MODERATE HAZARD**

LAB GRADE		
S25493C	100g	24.75
S25493D	500g	113.00
REAGENT GRADE		
S25493	25g	13.75
S25493A	100g	29.25
S25493B	500g	116.00

## Potassium Iodide Solutions

Color: Clear

Solubility in Water: Infinite

**MODERATE HAZARD**

0.1M		
S25864	500mL	12.25
0.5M		
S25865	500mL	20.25

## Potassium Nitrate

Saltpeper; KNO<sub>3</sub>

F.W. 101.11

CAS: 7757-79-1

Color: White

Shelf Life: 2 years

DOT Class 5.1, III: Oxidizer

**REACTIVE & OXIDIZING**

LAB GRADE		
S25494B	500g	7.95
REAGENT GRADE		
S25494	100g	8.75
S25494A	500g	17.75
S25494C	3kg	79.00

## Potassium Nitrate Solution, 0.1M

Color: Clear

Solubility in Water: Infinite

**MODERATE HAZARD**

0.1M		
S25866	500mL	7.55

## Potassium Nitrite

Nitrous Acid; KNO<sub>2</sub>

F.W. 85.11

CAS: 7758-09-0

Color: White/Pale-yellow

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 5.1, II: Oxidizer

**REACTIVE & OXIDIZING**

REAGENT GRADE		
S25495	100g	26.25
S25495A	500g	112.00

## Potassium Nitrite Solution, 1M

Color: Clear

Solubility in Water: Infinite

**MODERATE HAZARD**

1M		
S25867	100mL	11.50

## Potassium Oxalate, Monohydrate

Oxalic Acid; K<sub>2</sub>C<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O

F.W. 184.24

CAS: 6487-48-5

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 6.1, III: Poison

**HEALTH HAZARD**

LAB GRADE		
S25496	100g	11.50
S25496A	500g	22.50

## Potassium Permanganate

Chameleon Mineral; KMnO<sub>4</sub>

F.W. 158.04

CAS: 7722-64-7

Color: Dark brown

Solubility in Water: soluble

Shelf Life: 5 years

DOT Class 5.1, II: Oxidizer

**REACTIVE & OXIDIZING**

REAGENT GRADE		
S25497	100g	9.00
S25497A	500g	28.00

## Potassium Permanganate Solutions

Color: Purple

Solubility in Water: Infinite

**MODERATE HAZARD**

0.01M		
S25869	500mL	6.75
0.1M		
S25870	500mL	7.80
0.2M		
S25871	500mL	7.55

## Potassium Persulfate

Dipotassium Peroxydisulfate; K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>

F.W. 270.33

CAS: 7727-21-1

Color: White

Solubility in Water: Slightly soluble in water

Shelf Life: 1 year

DOT Class 5.1 (8), III: Oxidizer

**REACTIVE & OXIDIZING**

LAB GRADE		
S25498	100g	13.00

## Potassium Phosphate, Diabasic, Anhydrous

Potassium Monohydrogen Phosphate; K<sub>2</sub>HPO<sub>4</sub>

F.W. 174.18

CAS: 7758-11-4

Solubility in Water: Soluble in water

Shelf Life: 2 years

**MODERATE HAZARD**

SOLID		
S25500A	100g	11.75

## Potassium Phosphate, Monobasic

Dipotassium Phosphate Monobasic; KH<sub>2</sub>PO<sub>4</sub>

F.W. 136.09

CAS: 7778-77-0

Color: White

Solubility in Water: Soluble in water

Shelf Life: 2 years

**MODERATE HAZARD**

SOLID		
S25499	100g	14.25
S25499A	500g	29.75

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### Potassium Phosphate, Tribasic

Tripotassium Phosphate;  $K_3PO_4 \cdot nH_2O$

F.W. 212.03

CAS: 7778-53-2

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 8, II: *Corrosive*

**CORROSIVE**

REAGENT GRADE		
S25501	100g	26.00
S25501A	500g	35.00

### Potassium Polyacrylate

Potassium Acrylate

CAS: 25608-12-2

Color: Off White

Solubility in Water: Insoluble

Shelf Life: 2 years

**MODERATE HAZARD**

SOLID		
S25502	100g	20.00
S25502A	500g	27.75

### Potassium Sodium Tartrate, Tetrahydrate

Seignette Salt;  $KNaC_4H_4O_6 \cdot 4H_2O$

F.W. 282.22

CAS: 6381-59-5

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

**MODERATE HAZARD**

SOLID		
S25503	100g	12.25
S25503A	500g	24.75

### Potassium Sulfate

Dipotassium Sulfate;  $K_2SO_4$

F.W. 174.27

CAS: 7778-80-5

Color: White

Solubility in Water: Partly soluble in water

Shelf Life: 5 years

**MODERATE HAZARD**

ACS GRADE		
S25505	500g	26.00
LAB GRADE		
S25504	500g	16.75

### Potassium Thiocyanate

Potassium Rhodanate; KSCN

F.W. 97.18

CAS: 333-20-0

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

**MODERATE HAZARD**

ACS GRADE		
S25506	100g	14.00
S25506A	500g	64.75

### Potassium Thiocyanate Solution, 0.1M

Color: Clear

Solubility in Water: Infinite

**MODERATE HAZARD**

0.1M		
S25872	500mL	8.50

### Praseodymium Chloride Solution, 0.2M

Color: Green

Solubility in Water: Soluble in water

Shelf Life: 2 years

**MODERATE HAZARD**

0.2M		
S25773	50mL	28.50

### 1,2-Propanediol

1,2-Propylene Glycol;  $CH_3CHOHCH_2OH$

F.W. 76.10

CAS: 57-55-6

Color: Colorless

Solubility in Water: Miscible with water

Shelf Life: 2 years

**MODERATE HAZARD**

SOLUTION		
S25769	100mL	8.75
S25769A	500mL	16.75

### 1-Propanol

Propyl Alcohol;  $CH_3CH_2CH_2OH$

F.W. 60.10

CAS: 71-23-8

Color: Clear

Solubility in Water: Miscible

Shelf Life: 5 years

DOT Class 3, II: *Flammable Liquid*

**FLAMMABLE**

REAGENT GRADE		
S25507A	100mL	9.35
S25507	500mL	14.75

### Propionic Acid

Ethancarboxylic Acid;  $CH_3CH_2COOH$

F.W. 74.08

CAS: 79-09-4

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8, II: *Corrosive*

**CORROSIVE**

LAB GRADE		
S25508	100mL	10.25

### Pyridine

Azine; Azabenzene;  $C_5H_5N$

F.W. 79.10

CAS: 110-86-1

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 3, II: *Flammable Liquid*

**FLAMMABLE**

REAGENT GRADE		
S25762*	50mL	20.50
S25762A*	100mL	29.25

### Pyrogallol

Pyrogallol Acid;  $C_6H_3-1,2,3-(OH)_3$

F.W. 126.11

CAS: 87-66-1

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1, II: *Poison*

**HEALTH HAZARD**

SOLID		
S25509	25g	23.25

### Quinine Sulfate, Dihydrate

Quinine Sulfate;  $(C_{20}H_{24}N_2O_2)_2 \cdot H_2SO_4 \cdot 2H_2O$

F.W. 782.97

CAS: 6119-70-6

Color: White to off-white

Solubility in Water: Slightly

Shelf Life: 5 years

DOT Class 6.1, III: *Poison*

**HEALTH HAZARD**

LAB GRADE - POWDER		
S25510	5g	33.50
S25510A	10g	55.50
S25510B	25g	74.25

### Rennin

Rennase

CAS: 9001-98-3

Color: Tan

Solubility in Water: Soluble in water

Shelf Life: 2 years

**MODERATE HAZARD**

SOLID		
S25511	5g	60.00

### Resazurin

Biological Stain/Indicator;  $C_{12}H_8NO_4Na$

F.W. 251.17

CAS: 62758-13-8

Color: Black

Solubility in Water: Slightly

Shelf Life: 5 years

**MODERATE HAZARD**

SOLID		
S25782	1g	20.25
SOLUTION - 1%		
S25783	20mL	9.85



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**Resorcinol**1,3-Benzenediol; C<sub>6</sub>H<sub>4</sub>-1,3-(OH)<sub>2</sub>

F.W. 110.11

CAS: 108-46-3

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1, III: *Poison*

POWDER		
S25784	25g	14.50
S25784A	100g	29.75

HEALTH HAZARD

**Rhodamine B**Basic Violet 10; C<sub>28</sub>H<sub>31</sub>ClN<sub>2</sub>O<sub>3</sub>

F.W. 479.01

CAS: 81-88-9

Color: Green

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25785	25g	40.75

MODERATE HAZARD

**Rhodamine B Staining Solution, 1%**

Basic Violet 10

Color: Red

Solubility in Water: Soluble

Shelf Life: 2 years

1%		
S25786	20mL	11.75

MODERATE HAZARD

**Ringer's Solution**

Physiological Saline

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 5 years

LIQUID - AMPHIBIAN		
S25512	500mL	9.95

LIQUID - MAMMALIAN		
S25513	500mL	8.50

MODERATE HAZARD

**Rose Bengal**Acid Red 94; C<sub>20</sub>H<sub>2</sub>Cl<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>

F.W. 1019.43

CAS: 632-69-9

Color: Red

Solubility in Water: Soluble

Shelf Life: 5 years

SOLID		
S25788	5g	72.25

MODERATE HAZARD

**Rose Bengal Solution**

Acid Red 94

Color: Pink

Solubility in Water: Soluble

Shelf Life: 2 years

SOLUTION		
S25789	100mL	21.50

MODERATE HAZARD

**Safranin O**Basic Red 2; C<sub>20</sub>H<sub>9</sub>ClN<sub>4</sub>

F.W. 350.85

CAS: 477-73-6

Color: Dark Red-brown

Solubility in Water: Soluble in water

Shelf Life: 5 years

SOLID		
S25514A	10g	18.25
S25514	25g	32.25

MODERATE HAZARD

**Safranin Staining Solution, 1%**

Color: Red-Orange

Solubility in Water: Infinitesimal

1%		
S25873	500mL	28.50

MODERATE HAZARD

**Salicylic Acid**o-Hydroxybenzoic Acid; 2-HOC<sub>6</sub>H<sub>4</sub>COOH

F.W. 138.12

CAS: 69-72-7

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

LAB GRADE		
S25515	100g	8.35
S25515A	500g	22.50

MODERATE HAZARD

**Sand, Ottawa**

Quartz Silica

F.W. 60.08

CAS: 14808-60-7

Color: White/beige

Solubility in Water: Insoluble

Shelf Life: 5 years

POWDER		
S25516*	500g	5.55
S25516A*	3kg	20.25

MODERATE HAZARD

**Schiff Reagent**

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 2 years

Test for aldehydes

SOLUTION		
S25794	500mL	18.00

MODERATE HAZARD

**Sebacyl Chloride**Sebacyl Chloride; COCl(CH<sub>2</sub>)<sub>8</sub>COCl

F.W. 239.14

CAS: 111-19-3

Color: Colorless to yellow

Solubility in Water: Slightly

Shelf Life: 1 year

DOT Class 4.3 (8), I: *Dangerous When Wet*

SOLUTION		
S25517	25mL	80.00

CORROSIVE

**Sebacyl Chloride/Hexane Solution, 4% v/v**

Color: Clear, colorless

Shelf Life: 1 year

DOT Class 3, II: *Flammable Liquid*

4%		
S25517A	100mL	20.75

FLAMMABLE

**Seliwanoff Reagent**

Color: Colorless

Shelf Life: 2 years

DOT Class 8, II: *Corrosive*

SOLUTION		
S25798	100mL	8.45

CORROSIVE

**Sesame Oil**

Gingilli Oil, Sextra

CAS: 8008-74-0

Color: Clear yellow

Solubility in Water: Insoluble in water

Shelf Life: 5 years

LIQUID		
S25518	100mL	8.45

MODERATE HAZARD

REACTIVE &amp; OXIDIZING

**Silica Gel 6-12 Mesh, Non-indicating**

Amorphous Silica

F.W. 58.08

CAS: 1343-98-2

Color: White

Solubility in Water: Insoluble

Shelf Life: 2 years

SOLID		
S25519	500g	32.25

MODERATE HAZARD

**Silica Gel, Indicating**

Amorphous Silica

F.W. 60.08

Color: Blue

Solubility in Water: Insoluble, chloride may leach out

Shelf Life: 2 years

SOLID		
S25520	500g	25.25

MODERATE HAZARD

**Silicon Metal**

Si

F.W. 28.09

CAS: 7440-21-3

Color: Silver/gray

Solubility in Water: Insoluble

Shelf Life: 5 years

POWDER		
S25521	100g	12.00
S25521A	500g	29.50

MODERATE HAZARD

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**Silver**

Ag  
**F.W.** 107.87  
**CAS:** 7440-22-4  
**Color:** Silver  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years

MODERATE HAZARD

FOIL		
<b>S25522</b>	25g	158.00
SOLID		
<b>S25522A</b>	10g	512.00

**Silver Acetate**

Silver Monoacetate;  $\text{CH}_3\text{CO}_2\text{Ag}$   
**F.W.** 166.92  
**CAS:** 563-63-3  
**Color:** Off-white to gray  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

REAGENT GRADE		
<b>S25523</b>	10g	66.75

**Silver Nitrate**

$\text{AgNO}_3$   
**F.W.** 169.87  
**CAS:** 7761-88-8  
**Solubility in Water:** soluble  
**Shelf Life:** 5 years  
**DOT Class 5.1, II: Oxidizer**

SOLID		
<b>S25525</b>	25g	94.00
<b>S25525A</b>	500g	1596.00

**Silver Nitrate Solutions**

**Color:** Clear, colorless  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

0.1N		
<b>S25527</b>	1L	114.00
0.5M		
<b>S25874</b>	500mL	140.00
1.0N		
<b>S25526</b>	100mL	53.25
<b>S25526A</b>	500mL	290.00

**Silver Oxide**

Argentous Oxide;  $\text{Ag}_2\text{O}$   
**F.W.** 231.74  
**CAS:** 20667-12-3  
**Color:** Brown/black  
**Shelf Life:** 5 years  
**DOT Class 5.1 (8), II: Oxidizer**

REACTIVE &amp; OXIDIZING

SOLID		
<b>S25528</b>	25g	90.00

**Soap, Castile**

**Color:** Off-white  
**Shelf Life:** 5 years

MODERATE HAZARD

SOLID		
<b>S25529</b>	100g	14.00

**Sodium Acetate, Anhydrous**

Acetic Acid Sodium Salt;  $\text{CH}_3\text{CO}_2\text{Na}$   
**F.W.** 82.03  
**CAS:** 127-09-3  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year

MODERATE HAZARD

LAB GRADE		
<b>S25530</b>	100g	7.65
<b>S25530A</b>	500g	14.75

**Sodium Acetate, Trihydrate**

Acetic Acid, Sodium Salt, Trihydrate;  $\text{CH}_3\text{CO}_2\text{Na}\cdot 3\text{H}_2\text{O}$   
**F.W.** 136.08  
**CAS:** 6131-90-4  
**Color:** White  
**Solubility in Water:** Soluble in water, ether  
**Shelf Life:** 2 years

MODERATE HAZARD

REAGENT GRADE		
<b>S25531</b>	500g	15.75

**Sodium Benzoate**

Benzoic Acid, Sodium Salt;  $\text{C}_6\text{H}_5\text{CO}_2\text{Na}$   
**F.W.** 144.11  
**CAS:** 532-32-1  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years

MODERATE HAZARD

LAB GRADE - SOLID		
<b>S25532</b>	100g	11.50

**Sodium Bicarbonate**

Sodium Hydrogen Carbonate;  $\text{NaHCO}_3$   
**F.W.** 84.01  
**CAS:** 144-55-8  
**Solubility in Water:** Slightly soluble in water  
**Shelf Life:** 5 years

MODERATE HAZARD

LAB GRADE		
<b>S25533C</b>	500g	6.35
<b>S25533A</b>	2.5kg	15.25
REAGENT GRADE		
<b>S25533</b>	500g	8.35
<b>S25533B</b>	3kg	26.50

**Sodium Bismuthate (V)**

$\text{NaBiO}_3$   
**F.W.** 279.97  
**CAS:** 12232-99-4  
**Color:** Yellow/brown  
**Solubility in Water:** Insoluble in cold, decomposes in heat  
**Shelf Life:** 2 years

MODERATE HAZARD

REAGENT GRADE		
<b>S25534</b>	10g	49.25

**Sodium Bisulfate, Monohydrate**

Sodium Hydrogen Sulfate;  $\text{NaHSO}_4\cdot \text{H}_2\text{O}$   
**F.W.** 138.08  
**CAS:** 10034-88-5  
**Color:** Colorless  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**DOT Class 8, III: Corrosive**

CORROSIVE

REAGENT GRADE - SOLID		
<b>S25535</b>	100g	15.50
<b>S25535A</b>	500g	32.00

**Sodium Bisulfite**

Sodium Hydrogen Sulfite;  $\text{NaHSO}_3$   
**F.W.** 104.07  
**CAS:** 7631-90-5  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**DOT Class 8, III: Corrosive**

CORROSIVE

REAGENT GRADE		
<b>S25536</b>	100g	7.70
<b>S25536A</b>	500g	11.50

**Sodium Borate, Decahydrate**

Borax;  $\text{Na}_2\text{B}_4\text{O}_7\cdot 10\text{H}_2\text{O}$   
**F.W.** 381.42  
**CAS:** 1303-96-4

MODERATE HAZARD

LAB GRADE		
<b>S25537B</b>	500g	10.25
REAGENT GRADE		
<b>S25537</b>	100g	6.05
<b>S25537A</b>	500g	18.00

**Sodium Bromide**

Bromide Salt of Sodium;  $\text{NaBr}$   
**F.W.** 102.9  
**CAS:** 7647-15-6  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year

MODERATE HAZARD

REAGENT GRADE		
<b>S25538</b>	100g	9.45
<b>S25538A</b>	500g	22.25

**Sodium Carbonate**

$\text{Na}_2\text{CO}_3$   
**F.W.** 105.99  
**CAS:** 497-19-8  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 1 year

MODERATE HAZARD

LAB GRADE		
<b>S25539</b>	100g	4.00
<b>S25539A</b>	500g	7.50
<b>S25539D</b>	2kg	14.50
REAGENT GRADE		
<b>S25539B</b>	500g	11.75



**Sodium Carbonate, Monohydrate**Soda Ash Monohydrate; Na<sub>2</sub>CO<sub>3</sub>·H<sub>2</sub>O

F.W. 124.00

CAS: 5968-11-6

Color: White

Solubility in Water: Partially soluble

Shelf Life: 5 years

MODERATE HAZARD

**SOLID**

<b>S25539C</b>	500g	19.50
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**Sodium Chlorate**NaClO<sub>3</sub>

F.W. 106.44

CAS: 7775-09-9

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 5.1, II: Oxidizer

REACTIVE &amp; OXIDIZING

**LAB GRADE - CRYSTALS**

<b>S25540</b>	500g	14.00
<b>S25540A</b>	2kg	34.00

**Sodium Chloride**

Salt; NaCl

F.W. 58.44

CAS: 7647-14-5

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

<b>S25542</b>	500g	4.90
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**REAGENT GRADE**

<b>S25541</b>	500g	7.40
<b>S25541A</b>	2.5kg	18.00
<b>S25542A</b>	3kg	39.25
<b>S25541B</b>	12kg	35.50

**SOLID - ROCK SALT**

<b>S25543</b>	2.5kg	8.50
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**Sodium Chloride Solutions**

Color: Clear

Solubility in Water: Infinite

MODERATE HAZARD

**0.1M**

<b>S25875</b>	500mL	6.35
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**0.5M**

<b>S25876</b>	500mL	6.75
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**1M**

<b>S25877</b>	500mL	6.75
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**Sodium Chromate Solution, 0.1M**

Color: Yellow

Solubility in Water: Infinite

MODERATE HAZARD

**0.1M**

<b>S25878</b>	500mL	8.05
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**Sodium Chromate, Anhydrous**Chromic Acid; Na<sub>2</sub>CrO<sub>4</sub>

F.W. 161.97

CAS: 7775-11-3

Color: Yellow

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, III: Oxidizer

REACTIVE &amp; OXIDIZING

**LAB GRADE**

<b>S25544</b>	100g	10.50
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**Sodium Citrate, Dihydrate**Citric Acid Trisodium Salt Trihydrate; Na<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>·2H<sub>2</sub>O

F.W. 294.10

CAS: 6132-04-3

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

<b>S25545</b>	500g	14.50
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**Sodium Dichromate Solution, 0.1M**

Color: Yellow/Orange

Solubility in Water: Infinite

MODERATE HAZARD

**0.1M**

<b>S25879***</b>	500mL	9.90
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**Sodium Dichromate, Dihydrate**Sodium Bichromate; Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>·2H<sub>2</sub>O

F.W. 298.00

CAS: 7789-12-0

Color: Reddish/orange

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 5.1, III: Oxidizer

REACTIVE &amp; OXIDIZING

**LAB GRADE**

<b>S25546***</b>	100g	7.25
<b>S25546A***</b>	500g	17.25

**Sodium Fluoride**

NaF

F.W. 41.99

CAS: 7681-49-4

Color: White/off-white

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 6.1, III: Poison

HEALTH HAZARD

**LAB GRADE - SOLID**

<b>S25547</b>	100g	11.50
<b>S25547A</b>	500g	20.00

**Sodium Hydroxide**

Caustic Soda; NaOH

F.W. 40.00

CAS: 1310-73-2

Color: White

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

**LAB GRADE**

<b>S25548B</b>	500g	8.95
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**REAGENT GRADE**

<b>S25548</b>	100g	8.10
<b>S25548A</b>	500g	15.75
<b>S25548C</b>	1kg	52.75
<b>S25548D</b>	3kg	79.00

**Sodium Hydroxide Solution, 0.1N**

Caustic Soda

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

MODERATE HAZARD

**0.1N**

<b>S25551</b>	500mL	5.90
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**Sodium Hydroxide Solution, 0.2M**

Caustic Soda

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

MODERATE HAZARD

**0.2M**

<b>S25880</b>	500mL	7.40
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**Sodium Hydroxide Solution, 10N**

Caustic Soda

Color: Clear solution

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

**10N**

<b>S25550</b>	1L	15.00
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**Sodium Hydroxide Solutions, 1M/1N**

Caustic Soda

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

**1M SOLUTION**

<b>S25549A</b>	1L	7.70
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**1N SOLUTION**

<b>S25549</b>	1L	11.00
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Chemicals are educational grade and are intended for teaching use only.  
Not approved for clinical use.



**Sodium Hydroxide Solutions, Various**

Caustic Soda

Color: Clear

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

**CORROSIVE**

0.5M		
S25881	500mL	7.20
3M		
S25884	500mL	9.40
50%		
S25882	500mL	18.75
6M		
S25883	500mL	10.75

**Sodium Hypochlorite Solution, 13%**

NaOCl

F.W. 74.44

CAS: 7681-52-9

Color: Clear, light yellow-green

Solubility in Water: Soluble in water

Shelf Life: One year

DOT Class 8, III: Corrosive

**CORROSIVE**

13%		
S25552	500mL	6.75

**Sodium Iodate**Iodic Acid; NaIO<sub>3</sub>

F.W. 197.90

CAS: 7681-55-2

Color: White

Solubility in Water: Soluble

Shelf Life: 2 years

DOT Class 5.1, III: Oxidizer

**REACTIVE & OXIDIZING**

REAGENT GRADE		
S25553	100g	37.75

**Sodium Iodide**

Sodium Monoiodide; NaI

F.W. 149.89

CAS: 7681-82-5

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

**MODERATE HAZARD**

LAB GRADE		
S25554	100g	30.75
S25554A	500g	125.00

**Sodium Iodide Solutions**

Solubility in Water: Soluble

Shelf Life: 1 year

**MODERATE HAZARD**

0.1M		
S25885	500mL	9.00
1M		
S25555	500mL	46.75

**Sodium Metal**

Natrium; Na

F.W. 22.99

CAS: 7440-23-5

Color: Light Silver

Solubility in Water: Reacts with water

Shelf Life: 2 years

DOT Class 4.3, I: Dangerous When Wet

**FLAMMABLE**

LAB GRADE		
S25556	10g	30.75
S25556A	100g	54.50

**Sodium Nitrate**Chile saltpeter; NaNO<sub>3</sub>

F.W. 84.99

CAS: 7631-99-4

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 5.1, III: Oxidizer

**REACTIVE & OXIDIZING**

LAB GRADE		
S25558	100g	7.85
S25558A	500g	9.60
S25558B	2kg	22.75

REAGENT GRADE		
S25557	500g	21.00

**Sodium Nitrate Solutions**

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 2 years

**MODERATE HAZARD**

0.1M		
S25886	500mL	7.45
0.5M		
S25887	500mL	7.85
1M		
S25559	60mL	9.55

**Sodium Nitrite**Nitrous Acid, Sodium Salt; NaNO<sub>2</sub>

F.W. 69.00

CAS: 7632-00-0

Color: Light yellow

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 5.1 (6.1), III: Poison

**REACTIVE & OXIDIZING**

REAGENT GRADE		
S25560	100g	12.50
S25560A	500g	27.00

**Sodium Oxalate**Ethanedioic Acid; Na<sub>2</sub>C<sub>2</sub>O<sub>4</sub>

F.W. 134.00

CAS: 62-76-0

Color: White

Solubility in Water: Moderately soluble in water

Shelf Life: 1 year

DOT Class 6.1, III: Poison

**HEALTH HAZARD**

REAGENT GRADE		
S25561	25g	9.20
S25561A	100g	18.00
S25561B	500g	52.75

**Sodium Oxalate Solution, 0.1M**

Color: Clear

Solubility in Water: Infinite

**MODERATE HAZARD**

0.1M		
S25888	500mL	7.25

**Sodium Phosphate Solution, 0.1M**

Color: Clear

Solubility in Water: Soluble in water

**MODERATE HAZARD**

0.1M		
S25889	500mL	11.00

**Sodium Phosphate, Dibasic, Anhydrous**Disodium Hydrogen Phosphate; Na<sub>2</sub>HPO<sub>4</sub>

F.W. 141.96

CAS: 7758-79-4

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

**MODERATE HAZARD**

REAGENT GRADE		
S25563	100g	11.00
S25563A	500g	25.50

**Sodium Phosphate, Dibasic, Heptahydrate**Disodium hydrogen phosphate heptahydrate; Na<sub>2</sub>HPO<sub>4</sub>·7H<sub>2</sub>O

F.W. 268.07

CAS: 7782-85-6

Color: White

Shelf Life: 5 years

**MODERATE HAZARD**

CRYSTALS		
S25837	500g	25.75

**Sodium Phosphate, Dibasic, Heptahydrate, Reagent Grade**Disodium hydrogen phosphate heptahydrate; Na<sub>2</sub>HPO<sub>4</sub>·7H<sub>2</sub>O

F.W. 268.07

CAS: 7782-85-6

Color: White

Solubility in Water: 1.54g/L

Shelf Life: 5 years

**MODERATE HAZARD**

REAGENT GRADE		
S25837A	100g	12.50

**Sodium Phosphate, Monobasic**

Monosodium Dihydrogen Phosphate Monohydrate;

NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O

F.W. 137.99

CAS: 10049-21-5

Color: White

Solubility in Water: Soluble in water

Shelf Life: 5 years

**MODERATE HAZARD**

REAGENT GRADE - CRYSTALS		
S25562A	100g	11.00

## Sodium Phosphate, Monobasic, Anhydrous

Sodium Dihydrogen Phosphate;  $\text{NaH}_2\text{PO}_4$ 

F.W. 120.00

CAS: 7558-80-7

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

<b>SOLID</b>		
<b>S25562</b>	100g	17.75

## Sodium Phosphate, Tribasic, Dodecahydrate

Trisodium Orthophosphate Dodecahydrate;  $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$ 

F.W. 380.12

CAS: 10101-89-0

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8, II: Corrosive

CORROSIVE

<b>REAGENT GRADE</b>		
<b>S25564</b>	500g	14.00

## Sodium Polyacrylate

CAS: 9003-04-7

Color: White

Solubility in Water: Insoluble

Shelf Life: 2 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25565</b>	100g	15.75

## Sodium Silicate Solution, 37%

Liquid Sodium Silicate

CAS: 1344-09-8

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

<b>37%</b>		
<b>S25566</b>	500mL	6.30
<b>S25566A</b>	1L	26.50
<b>S25566B</b>	3.785L	25.00

## Sodium Silicate, Nonahydrate

Sodium Metasilicate;  $\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$ 

F.W. 284.19

CAS: 13517-24-3

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 8, III: Corrosive

CORROSIVE

<b>SOLID</b>		
<b>S25567</b>	500g	38.75

## Sodium Sulfate Solution, 0.1M

Color: Clear

Solubility in Water: Infinite

MODERATE HAZARD

<b>LIQUID</b>		
<b>S25890</b>	500mL	7.65

## Sodium Sulfate, Anhydrous

Disodium Sulfate;  $\text{Na}_2\text{SO}_4$ 

F.W. 142.04

CAS: 7757-82-6

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

<b>LAB GRADE</b>		
<b>S25568</b>	100g	6.85
<b>S25568A</b>	500g	12.25

## Sodium Sulfate, Decahydrate

Disodium Sulfate Decahydrate;  $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ 

F.W. 322.19

CAS: 7727-73-3

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

<b>REAGENT GRADE</b>		
<b>S25569</b>	500g	40.75

## Sodium Sulfide Solution, 0.1M

Color: Clear

Solubility in Water: Soluble in water

MODERATE HAZARD

<b>0.1M</b>		
<b>S25891</b>	500mL	10.25

## Sodium Sulfide, Nonahydrate

Sodium Monosulfide Nonahydrate;  $\text{Na}_2\text{S} \cdot 9\text{H}_2\text{O}$ 

F.W. 240.18

CAS: 1313-84-4

Color: Light yellow

Solubility in Water: Partly

Shelf Life: 1 year

DOT Class 8, II: Corrosive

CORROSIVE

<b>LAB GRADE</b>		
<b>S25570</b>	100g	15.25
<b>S25570A</b>	500g	47.25

## Sodium Sulfite Solution, 1.0M

Color: Clear

Solubility in Water: Infinite

MODERATE HAZARD

<b>0.1M</b>		
<b>S25892</b>	500mL	7.85

## Sodium Sulfite, Anhydrous

Disodium Sulfite;  $\text{Na}_2\text{SO}_3$ 

F.W. 126.04

CAS: 7757-83-7

Color: Off-white

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

<b>REAGENT GRADE</b>		
<b>S25571</b>	500g	9.90

## Sodium Thiocyanate

Sodium Rhodanate;  $\text{NaSCN}$ 

F.W. 81.07

CAS: 540-72-7

Color: White

Solubility in Water: Soluble in water

Shelf Life: 1 year

MODERATE HAZARD

<b>REAGENT GRADE</b>		
<b>S25572</b>	100g	15.75
<b>S25572A</b>	500g	29.00

## Sodium Thiosulfate Solution, 0.1M

Color: Clear

Solubility in Water: Soluble in water

MODERATE HAZARD

<b>0.1M</b>		
<b>S25893</b>	500mL	6.75

## Sodium Thiosulfate, Anhydrous

Sodium Hyposulfite;  $\text{Na}_2\text{S}_2\text{O}_3$ 

F.W. 158.11

CAS: 7772-98-7

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

<b>REAGENT GRADE</b>		
<b>S25573A</b>	500g	15.75

## Sodium Thiosulfate, Pentahydrate

Sodium Hyposulfite Pentahydrate;  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ 

F.W. 248.18

CAS: 10102-17-7

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

<b>REAGENT GRADE</b>		
<b>S25574</b>	100g	9.90
<b>S25574A</b>	500g	18.75
<b>S25574B</b>	1kg	14.50
<b>S25574C</b>	2.5kg	41.00

## Spermaceti Wax

Sperm Whale Wax

CAS: 8002-23-1

Color: Waxy

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

<b>SOLID</b>		
<b>S25795</b>	100g	43.50

## Stannic Chloride, Pentahydrate

Tin(IV) Chloride Pentahydrate;  $\text{SnCl}_4 \cdot 5\text{H}_2\text{O}$ 

F.W. 350.58

CAS: 10026-06-9

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

CORROSIVE

<b>LAB GRADE</b>		
<b>S25576</b>	25g	18.50

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Not approved for clinical use.

**Stannic Oxide**Tin (IV) Oxide; SnO<sub>2</sub>

F.W. 150.69

CAS: 18282-10-5

Color: White-slight gray

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**LAB GRADE**

S25577	100g	37.25
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**Stannous Chloride, Dihydrate**Tin (II) Chloride Dihydrate; SnCl<sub>2</sub>·2H<sub>2</sub>O

F.W. 225.63

CAS: 10025-69-1

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

CORROSIVE

**LAB GRADE**

S25578	25g	13.75
S25578A	100g	33.50
S25578B	500g	76.00

**Starch**Amylodextrin; (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>

CAS: 9005-25-8

Color: White

Solubility in Water: Slightly Soluble

Shelf Life: 5 years

MODERATE HAZARD

**0.5% SOLUTION**

S25581	500mL	9.40
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**1% SOLUTION**

S25584	250mL	8.20
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**5% SOLUTION**

S25579	500mL	9.60
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**POWDER - CORN STARCH**

S25580	500g	10.75
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S25580A	2.5kg	26.75
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**POWDER - POTATO STARCH**

S25583	500g	24.00
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**POWDER - SOLUBLE STARCH - LAB GRADE**

S25582	100g	18.00
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S25582A	500g	59.75
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**Stearic Acid**1-Heptadecanecarboxylic Acid; CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH

F.W. 284.47

CAS: 57-11-4

Color: White

Solubility in Water: Slightly soluble

Shelf Life: 5 years

DOT Class 4.1, III: Flammable Solid

FLAMMABLE

**LAB GRADE**

S25585	250g	13.75
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**Steel**

Color: Gray

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

**STEEL SHOT**

S25587	500g	9.10
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**STEEL WOOL**

S25586	500g	18.50
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**Streptomycin Sulfate**Streptomycin A Sulfate; C<sub>22</sub>H<sub>34</sub>N<sub>14</sub>O<sub>16</sub>S<sub>3</sub>

F.W. 728.69

CAS: 3810-74-0

Color: White

Solubility in Water: Soluble in water

Shelf Life: 2 years

MODERATE HAZARD

**SOLID**

S25797**	5g	40.50
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**Strontium Chloride, Hexahydrate**SrCl<sub>2</sub>·6H<sub>2</sub>O

F.W. 266.62

CAS: 10025-70-4

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

MODERATE HAZARD

**LAB GRADE**

S25588	25g	5.90
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S25588A	100g	8.90
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S25588B	500g	27.00
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**Strontium Nitrate**Sr(NO<sub>3</sub>)<sub>2</sub>

F.W. 211.63

CAS: 10042-76-9

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

DOT Class 5.1, III: Oxidizer

REACTIVE &amp; OXIDIZING

**LAB GRADE**

S25589	100g	10.75
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S25589A	500g	23.75
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**Succinic Acid**Butanedioic Acid; (CH<sub>2</sub>COOH)<sub>2</sub>

F.W. 118.09

CAS: 110-15-6

Color: Colorless

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**CRYSTALS**

S25790	100g	20.50
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**Sucrose**C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

F.W. 342.30

CAS: 57-50-1

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

**REAGENT GRADE**

S25590	500g	13.25
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S25590A	1kg	19.50
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S25590B	2.5kg	37.00
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**Sudan III**2-Naphthalenol; C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O

F.W. 352.40

CAS: 85-86-9

Color: Dark red to brown

Solubility in Water: Insoluble

Shelf Life: 5 years

DOT Class 4.1, II: Flammable Solid

FLAMMABLE

**SOLID**

S25593	10g	10.50
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S25593A	25g	20.25
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**Sudan III, 0.2% in Alcohol Solution**

Color: Red

Solubility in Water: Infinite

Shelf Life: 18 months

DOT Class 3, II: Flammable Liquid

FLAMMABLE

**0.20%**

S25591	100mL	8.20
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**Sudan IV**

Oil Red

CAS: 85-83-6

Color: Red

Solubility in Water: Insoluble

Shelf Life: 5 years

**SOLID**

S25594	10g	17.25
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**Sudan IV, 0.05% in Acetone Solution**

Oil Red

Color: Red

Solubility in Water: Soluble in water

Shelf Life: 18 months

DOT Class 3, II: Flammable Liquid

FLAMMABLE

**0.05%**

S25592	100mL	9.75
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\* California - WARNING: Cancer www.P65Warnings.ca.gov

\*\* California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

\*\*\* California - WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov



**Sulfamic Acid**Amidosulfonic Acid; H<sub>2</sub>NSO<sub>3</sub>H

F.W. 97.09

CAS: 5329-14-6

Color: White

**Solubility in Water:** Soluble

Shelf Life: 12 months

DOT Class 8, III: *Corrosive*

SOLID		
S25792	50g	11.50

**CORROSIVE****Sulfanilic Acid**p-Aminobenzene Sulfonic Acid; NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H·H<sub>2</sub>O

F.W. 173.19

CAS: 121-57-3

Color: off/white

**Solubility in Water:** Slightly

Shelf Life: 5 years

SOLID		
S25793	10g	11.75
S25793A	100g	49.50

**MODERATE HAZARD****Sulfur**

Sulphur; S

F.W. 32.06

CAS: 7704-34-9

Color: Yellow

**Solubility in Water:** Insoluble

Shelf Life: 5 years

DOT Class 9, III: *Miscellaneous*

LAB GRADE - FLOWERS		
S25596	100g	6.65
S25596A	500g	11.00
S25596B	2.5kg	24.75
LAB GRADE - ROLL		
S25595A	3kg	20.75
REAGENT GRADE - ROLL		
S25595	500g	6.90

**FLAMMABLE****Sulfuric Acid Solution, 0.05M/0.1M**

Color: Clear

**Solubility in Water:** Infinite

Shelf Life: 2 years

0.05M		
S25895*	500mL	10.75
0.1M		
S25896*	500mL	9.95

**Sulfuric Acid Solutions**H<sub>2</sub>SO<sub>4</sub>

Color: Clear, colorless

**Solubility in Water:** Soluble in water

Shelf Life: 2 years

DOT Class 8, II: *Corrosive*

1N		
S25598*	500mL	8.20
S25598A*	1L	13.75
10N		
S25599*	500mL	16.25

**CORROSIVE****Sulfuric Acid Solutions, Various**

Color: Clear

**Solubility in Water:** Infinite

Shelf Life: 2 years

DOT Class 8, II: *Corrosive*

1M		
S25897*	500mL	10.25
2M		
S25898*	500mL	13.00
3M		
S25899*	500mL	11.75
6M		
S25900*	500mL	15.00

**CORROSIVE****Sulfuric Acid, pH 3 to 3.5**H<sub>2</sub>SO<sub>4</sub>

Color: Clear Colorless

**Solubility in Water:** Infinite

Shelf Life: 2 years

pH 3 TO 3.5		
S25599C*	500mL	9.25
S25599A*	1L	8.15
S25599B*	4L	38.25

**MODERATE HAZARD****Sulfuric Acid, Reagent/ACS Grades**H<sub>2</sub>SO<sub>4</sub>

F.W. 98.07

CAS: 7664-93-9

Color: Clear, colorless

**Solubility in Water:** Soluble in water

Shelf Life: 2 years

DOT Class 8, II: *Corrosive*

ACS GRADE - SAFE-COTE		
S25597*	500mL	23.75
REAGENT GRADE		
S25894*	2.5L	42.50

**CORROSIVE****Talc**Talcum; Soapstone; 3MgO·4SiO<sub>2</sub>·H<sub>2</sub>O

F.W. 166.40

CAS: 14807-96-6

Color: off/white

**Solubility in Water:** Insoluble

Shelf Life: 5 years

SOLID		
S25799*	500g	12.50

**MODERATE HAZARD****Tannic Acid**Tannin; C<sub>76</sub>H<sub>42</sub>O<sub>46</sub>

F.W. 1701.22

CAS: 1401-55-4

Color: Yellow-Brown

**Solubility in Water:** Soluble

Shelf Life: 5 years

LAB GRADE		
S25600	100g	18.75

**MODERATE HAZARD****Tartaric Acid**Threatic Acid; HO<sub>2</sub>CCH(OH)CH(OH)CO<sub>2</sub>H

F.W. 150.09

CAS: 87-69-4

Color: White

**Solubility in Water:** Water soluble

Shelf Life: 5 years

LAB GRADE		
S25601	100g	12.25
S25601A	500g	24.75

**MODERATE HAZARD****Tetrahydrofuran**THF; C<sub>4</sub>H<sub>8</sub>O

F.W. 72.11

CAS: 109-99-9

Color: Colorless

**Solubility in Water:** Soluble

Shelf Life: 1 year

DOT Class 3, II: *Flammable Liquid*

SOLUTION		
S25802	100mL	24.50

**FLAMMABLE****Thermit Kit**

Contains: Ferric(ous) Oxide - Black and Aluminum

Metal - Fine Powder

**Procedure:** Mix contents to create Thermit**Mixture Ignition Temperature:** approx. 1200°C

KIT		
S25602	Ea.	45.75

**Thionin**

3,7-Diaminophenothiazin-5-ium Chloride

F.W. 263.74

CAS: 581-64-6

Color: Black-Green

**Solubility in Water:** Soluble

Shelf Life: 5 years

SOLID		
S25816	1g	16.25

**MODERATE HAZARD****Thionin Solution**

Color: Purple

Shelf Life: 5 years

SOLUTION		
S25817	100mL	24.50

**MODERATE HAZARD****Thymol**Thymic Acid; CH<sub>3</sub>(C<sub>6</sub>H<sub>4</sub>)C<sub>6</sub>H<sub>3</sub>OH

F.W. 150.22

CAS: 89-83-8

Color: White

**Solubility in Water:** Soluble

Shelf Life: 5 years

DOT Class 8, III: *Corrosive*

LAB GRADE		
S25603	100g	21.25

**CORROSIVE**

Chemicals are educational grade and are intended for teaching use only.  
Not approved for clinical use.



### Thymol Blue Solution, 0.04%

**Color:** Clear, dark blue/green  
**Solubility in Water:** Infinite  
**Shelf Life:** 18 months  
**0.04%**  
**S25605** 100mL 8.85

MODERATE HAZARD

### Thymol Blue, Sodium Salt

Thymolsulfonaphthalein;  $C_{27}H_{29}NaO_5S$   
**F.W.** 466.267  
**CAS:** 81012-93-3  
**Color:** Green-red to Brown  
**Solubility in Water:** Water soluble  
**Shelf Life:** 5 years  
**SOLID**  
**S25604** 5g 44.00

MODERATE HAZARD

### Thymolphthalein

TP;  $C_{28}H_{30}O_4$   
**F.W.** 430.52  
**CAS:** 125-20-2  
**Color:** White  
**Shelf Life:** 5 years  
**REAGENT GRADE**  
**S25606** 5g 15.50

MODERATE HAZARD

### Thymolphthalein Solution, 0.04%

**Color:** Clear, colorless  
**Solubility in Water:** Completely soluble  
**Shelf Life:** 18 months  
**DOT Class 3, II:** *Flammable Liquid*  
**0.04%**  
**S25607** 100mL 6.85

FLAMMABLE

### Tin

Metallic Tin; Sn  
**F.W.** 118.70  
**CAS:** 7440-31-5  
**Color:** Gray  
**Solubility in Water:** Slightly soluble in hot water  
**Shelf Life:** 5 years  
**REAGENT GRADE - MOSSY**  
**S25609** 100g 25.00  
**S25609A** 500g 114.00  
**REAGENT GRADE - POWDER**  
**S25608** 100g 31.00  
**S25608A** 500g 116.00  
**REAGENT GRADE - SHOT**  
**S25610** 100g 34.00

MODERATE HAZARD

### Titanium Dioxide

Anatase;  $TiO_2$   
**F.W.** 79.88  
**CAS:** 13463-67-7  
**Color:** White  
**Solubility in Water:** Insoluble  
**Shelf Life:** 5 years  
**SOLID**  
**S25818** 100g 15.25  
**S25818A** 500g 48.00

MODERATE HAZARD

### Toluene

Tol, Methylbenzene;  $CH_3C_6H_5$   
**F.W.** 92.14  
**CAS:** 108-88-3  
**Color:** Clear  
**Solubility in Water:** Insoluble  
**Shelf Life:** 2 years  
**DOT Class 3, II:** *Flammable Liquid*  
**SOLUTION**  
**S25611\*\*** 500mL 9.30  
**S25611A\*\*** 1L 18.00

FLAMMABLE

### Toluidine Blue O Solution, 0.5%

**Color:** Clear, bluish-purple  
**Solubility in Water:** Infinite  
**Shelf Life:** 18 months  
**0.5%**  
**S25612** 15mL 5.80  
**S25613** 100mL 13.00

MODERATE HAZARD

### Trichloroacetic Acid

Trichlorethanoic Acid;  $CCl_3COOH$   
**F.W.** 163.39  
**CAS:** 76-03-9  
**Color:** White  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 2 years  
**DOT Class 8, II:** *Corrosive*  
**LAB GRADE**  
**S25614\*** 100g 17.75

CORROSIVE

### Triethanolamine

2,2,2-Nitrioltriethanol;  $N(CH_2CH_2OH)_3$   
**F.W.** 149.19  
**CAS:** 102-71-6  
**Color:** Light yellow  
**Shelf Life:** 5 years  
**REAGENT GRADE**  
**S25615** 500mL 61.75

MODERATE HAZARD

### Tris Borate EDTA

TBE 5X Buffer  
**Color:** Clear, colorless  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years  
**LIQUID**  
**S25616** 500mL 11.00

MODERATE HAZARD

### Tris(hydroxymethyl) Aminomethane

THAM;  $H_2NC(CH_2OH)_3$   
**F.W.** 121.14  
**CAS:** 77-86-1  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years  
**SOLID**  
**S25617** 100g 37.75

MODERATE HAZARD

### Trypsin

Trypure  
**CAS:** 9002-07-7  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 2 years  
**SOLID**  
**S25618** 100g 67.25

MODERATE HAZARD

### Tryptone

**CAS:** 73049-73-7  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**SOLID**  
**S25827** 100g 43.50

MODERATE HAZARD

### L-Tyrosine

3-(4-Hydroxyphenyl)-L-Alanine;  $HOC_6H_4CH_2CH(NH_2)CO_2H$   
**F.W.** 181.19  
**CAS:** 60-18-4  
**Color:** White  
**Solubility in Water:** Slightly  
**Shelf Life:** 5 years  
**SOLID**  
**S25829** 5g 18.25

MODERATE HAZARD

### Universal Indicator Solution

Universal pH Indicator  
**Color:** Clear green  
**Solubility in Water:** Soluble in water  
**Shelf Life:** 18 months  
**DOT Class 3, II:** *Flammable Liquid*  
**COLOR CHART**  
**S25619** Ea. 3.05  
**SOLUTION**  
**S25363B** 100mL 9.15  
**S25363** 500mL 19.25  
**SOLUTION WITH COLOR CHART**  
**S25363A** 1L 26.00

FLAMMABLE

### Urea

Carbamide Resin;  $NH_2CONH_2$   
**F.W.** 60.06  
**CAS:** 57-13-6  
**Color:** White  
**Solubility in Water:** Soluble  
**Shelf Life:** 5 years  
**REAGENT GRADE**  
**S25620** 100g 6.00  
**S25620A** 500g 11.50

MODERATE HAZARD

 \* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Urease**

Urea Amidohydrolase

CAS: 9002-13-5

Color: White-yellow

Solubility in Water: Soluble in water

Shelf Life: 5 years

MODERATE HAZARD

SOLID		
S25621	10g	20.75

**Vegetable Oil**

Soybean Oil

CAS: 8001-22-7

Color: Clear, yellow

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

SOLUTION		
S25622A	32 oz.	15.75
S25622	500mL	5.60

**Vinegar**

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 5 years

MODERATE HAZARD

LIQUID - CIDER		
S25624	1L	8.45
S25624A	3.8L	11.00
LIQUID - WHITE		
S25623	500mL	6.10
S25623A	3.8L	10.75

**Water**

F.W. 18.02

CAS: 7732-18-5

Color: Clear

Shelf Life: 5 years

Use: Not for human consumption

MODERATE HAZARD

DEIONIZED, TYPE II		
S25293	4L	9.15
DISTILLED		
S25868	1 gal.	10.00

**Winkler's Solution No. 2**

Oxygen Determining Solution

Color: Clear, colorless

Solubility in Water: Soluble in water

Shelf Life: 2 years

DOT Class 8, II: Corrosive

CORROSIVE

SOLUTION		
S25625	500mL	10.75

**Wright's Blood Stain Buffer**

Giordan pH 6.4

Color: Clear, colorless

Solubility in Water: Infinite

Shelf Life: 2 years

MODERATE HAZARD

SOLUTION		
S25628	1L	49.50

**Wright's Blood Stain Solution**

Color: Dark blue

Solubility in Water: Miscible in water

Shelf Life: 5 years

DOT Class 3, II: Flammable Liquid

FLAMMABLE

SOLUTION		
S25627	100mL	10.50

**Xylenes**Xylol; C<sub>8</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>

F.W. 106.17

CAS: 1330-20-7

Color: Clear

Solubility in Water: Insoluble

Shelf Life: 2 years

DOT Class 3, III: Flammable Liquid

FLAMMABLE

SOLUTION		
S25629*	500mL	12.00

**D (+) Xylose**Wood Sugar; C<sub>5</sub>H<sub>10</sub>O<sub>5</sub>

F.W. 150.13

CAS: 58-86-6

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

SOLID		
S25630	25g	18.25

**Yeast, Active, Dry**

Brewer's

CAS: 8013-01-2

Color: Tan

Solubility in Water: Soluble in water

Shelf Life: 2 years

MODERATE HAZARD

POWDER		
S25632	100g	10.50
S25632A	500g	20.50

**Yttrium Oxide**Yttrium (III) Oxide; Y<sub>2</sub>O<sub>3</sub>

F.W. 225.81

CAS: 1314-36-9

Color: White

Shelf Life: 2 years

MODERATE HAZARD

SOLID		
S25833	10g	24.00

**Zeolite**

Cationic Exchange Resins

CAS: 1318-02-1

Color: White

Solubility in Water: Insoluble

Shelf Life: 5 years

MODERATE HAZARD

SOLID		
S25834	500g	28.00

**Zinc Acetate, Dihydrate**(CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub>Zn·2H<sub>2</sub>O

F.W. 219.50

CAS: 5970-45-6

Color: White

Solubility in Water: Soluble

Shelf Life: 5 years

MODERATE HAZARD

REAGENT GRADE		
S25634	100g	8.90

**Zinc Chloride**Zinc Butter; ZnCl<sub>2</sub>

F.W. 136.29

CAS: 7646-85-7

Color: White

Solubility in Water: Soluble

Shelf Life: 1 year

DOT Class 8, III: Corrosive

CORROSIVE

REAGENT GRADE		
S25635A	100g	9.00
S25635	500g	13.25

**Zinc Nitrate Solution, 0.1M**

Color: Clear

Solubility in Water: Soluble in water

MODERATE HAZARD

0.1M		
S25901	500mL	7.80

**Zinc Nitrate, Hexahydrate**Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O

F.W. 297.47

CAS: 10196-18-6

Color: White

Solubility in Water: Soluble in water

Shelf Life: 5 years

DOT Class 5.1, II: Oxidizer

REACTIVE &amp; OXIDIZING

REAGENT GRADE		
S25640	100g	11.50
S25640A	500g	24.25

**Zinc Oxide**

ZnO

F.W. 81.38

CAS: 1314-13-2

Color: Off-White

Solubility in Water: Insoluble in water

Shelf Life: 5 years

DOT Class 9, III: Miscellaneous

HEALTH HAZARD

REAGENT GRADE		
S25641	500g	20.50

**Zinc Sulfate Solution, 0.1M**

Color: Clear

Solubility in Water: Soluble in water

MODERATE HAZARD

0.1M		
S25902	500mL	6.00

Chemicals are educational grade and are intended for teaching use only.  
Not approved for clinical use.



## Zinc Sulfate, Heptahydrate

Zinc Vitriol; ZnSO<sub>4</sub>·7H<sub>2</sub>O

F.W. 287.54

CAS: 7446-20-0

Color: White

**Solubility in Water:** Soluble in water**Shelf Life:** 2 years**DOT Class 9, III:** *Miscellaneous***HEALTH HAZARD****REAGENT GRADE**

<b>S25642</b>	100g	8.85
<b>S25642A</b>	500g	18.75

## Zinc Sulfide

ZnS

F.W. 97.44

CAS: 1314-98-3

Color: Off-white

**Solubility in Water:** Insoluble**Shelf Life:** 2 years**MODERATE HAZARD****SOLID**

<b>S25643</b>	500g	39.50
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## Zinc, Granular

Zn

**MODERATE HAZARD**

F.W. 65.38

CAS: 7440-66-6

Color: Gray

**Solubility in Water:** Reacts with water**Shelf Life:** 5 years**REAGENT GRADE - 20 TO 30 MESH**

<b>S25633</b>	500g	47.25
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## Zinc, Metal Pieces

Zn

**MODERATE HAZARD**

F.W. 65.38

CAS: 7440-6-6

Color: Gray

**Solubility in Water:** Insoluble**Shelf Life:** 5 years

Reacts with water or moisture

**PIECES (1 × 1.2 × 0.05CM)**

<b>S25644</b>	100/Pk	26.25
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## Zinc, Metal Powder

Zinc Dust; Zn

F.W. 65.37

CAS: 7440-6-6

Color: Light Blue

**Solubility in Water:** Insoluble**Shelf Life:** 5 years**DOT Class 4.3, II:** *Flammable*

Reacts with water or moisture

**FLAMMABLE****REAGENT GRADE - SOLID**

<b>S25637</b>	500g	39.50
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## Zinc, Mossy

Zn

F.W. 65.38

CAS: 7440-6-6

Color: Blue/Gray/White

**Solubility in Water:** Reacts with water**Shelf Life:** 5 years

Reacts with water or moisture

**MODERATE HAZARD****LAB GRADE**

<b>S25636B</b>	500g	25.50
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**REAGENT GRADE**

<b>S25636</b>	500g	23.00
<b>S25636A</b>	2.5kg	65.50

## Zinc, Sheet

Zn

F.W. 65.38

CAS: 7440-6-6

Color: Gray

**Solubility in Water:** Reacts with water**Shelf Life:** 5 years

Reacts with water or moisture

**MODERATE HAZARD****SHEET**

<b>S25638</b>	12 × 12 in.	27.50
<b>S25638A</b>	6 × 12 in.	15.75

## Zinc, Shot

Zinc Dust; Zn

F.W. 65.38

CAS: 7440-6-6

Color: Gray

**Solubility in Water:** Reacts with water**Shelf Life:** 5 years

Reacts with water or moisture

**MODERATE HAZARD****REAGENT GRADE**

<b>S25639</b>	100g	17.75
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## Zinc, Strips

Zn

F.W. 65.38

CAS: 7440-20-0

Zinc sulfate heptahydrate

**Density:** 7.14 g/cm<sup>3</sup> at 20°C

7440-20-0

**Boiling Point:** 908°C**Melting Point:** 419°C**MODERATE HAZARD****Strips**

<b>S25910</b>	2 × 1/4 in.	12.50
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# Rock Specimens for Hands-On Learning

To teach your students about rocks, minerals, and geology, you need the right tools. That's why the Fisher Science Education brand proudly offers a full selection of rock collections, as well as individual specimens, for your classroom.



## Featured Eisco Rock Kits

Description	Cat. No.
Mohs Hardness (9 specimens): For comparing minerals on a hardness scale from 1 to 9	<b>S24660</b>
Physical Properties of Minerals (12 specimens): Study color, luster, hardness, crystal habit, streak, and specific density	<b>S24661</b>
Intro to Minerals (12 specimens): Introduction to earth science	<b>S24662</b>
Basic Rocks and Minerals (40 specimens): Learn how to identify rocks and minerals	<b>S24663</b>
Igneous Rocks (12 specimens): Learn about rocks formed from cooled and crystallized magma or lava	<b>S24664</b>
Sedimentary Rocks (12 specimens): Use grain size and composition to identify the origin of sedimentary rocks	<b>S24665</b>
Metamorphic Rocks (12 specimens): Classify rocks based on foliation and metamorphism grade	<b>S24666</b>
Sedimentary Rock (1 specimen): Large clasts within rock are ideal for teaching students about rounding and sorting	<b>S24722</b>
Galena Mineral (1 specimen): Density is ideal for the study of specific gravity; reflective cube crystals illustrate metallic luster	<b>S24687</b>

*Most rock specimens are available as both single samples and packs of 12. Other sample types are available.*

Visit **fisheredu.com** or contact your Fisher Science Education sales representative to access our full selection of products.

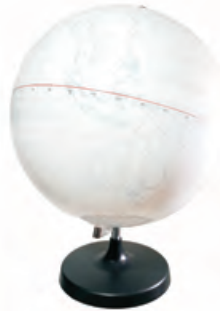
## Earth and Space

## Geography

## GSC Go Science Crazy Write-On Dry Erase Globe

Helps students learn geography. Globe can be wrote on with a dry-erase marker, and helps students memorize geographic locations.

- Made from dry-erase material
- Set in sturdy plastic base
- Continents outlined
- Latitude and longitude lines shown
- Can be cleaned with soft cloth



## United Scientific™ Magnetic Compass



- Liquid -filled

Cat. No.	Description	Price
S28100	Write-on Globe	52.75/Ea

Cat. No.	Description	Price
S43686	Magnetic Compass	1.80/Ea

## Meterology

## fisherbrand Traceable™ Digital Barometer

Perfect unit for plants and labs to monitor barometric pressure, temperature, relative humidity, barometric pressure trend and time-of-day. Fisherbrand Traceable Digital Barometer is ideal for use in environments where there is a need to monitor conditions of environmental air parameters.

- A four-line LCD continuously and simultaneously shows barometric pressure, temperature, relative humidity, barometric pressure trend and time
- Altitude adjustment: -100 to 2500 meters
- MIN/MAX readings for barometric pressure, temperature and relative humidity are stored every hour for the last 24 hours and are available for recall at the touch of a button
- Barometric pressure trend shows bar-chart format of the current and past 1/3/6/12 and 24 hour readings
- Computer output allows unit to be connected to a computer using the accessory Computer Data Acquisition System Software (sold separately, part number 14-650-118) to permanently capture the readings

### Specifications

- Barometric Pressure Range: 500 to 1030mbar
- Barometric Pressur Resolution: 1mbar
- Barometric Pressur Accuracy:  $\pm 4$ mbar
- Temperature Range: 0° to 55°C (32° to 131°F)
- Temperature Resolution: 0.1°
- Temperature Accuracy:  $\pm 0.4$ °C
- Relative Humidity Range: 5 to 95%
- Relative Humidity Resolution: 1% RH
- Relative Humidity Accuracy:  $\pm 3$ % RH between 5 to 75%, otherwise  $\pm 5$ % RH
- Dimensions: 10 x 7.6 x 2.5cm (4 x 3 x 1 in.)
- Weight: 198g (7 oz.)



### INCLUDES:

Wall mount, flip open stand and batteries

### CERTIFICATIONS:

An individually-numbered NIST Traceable™ Certificate is provided which assures accuracy from an ISO/IEC 17025:2005 calibration laboratory accredited by A2LA.

Cat. No.	Description	Price
S2-509-8	Traceable Digital Barometer	135.00/Ea

## Model 480 Vaneometer™ Anemometer

Use this sensitive unit to measure low air velocities at low cost.

Vaneometer™ Swing Vane Anemometer can be used to measure velocity of airflow into laboratory fume hoods and at paint spray booths to determine when to change filters. Or use wherever needed to meet OSHA standards of ventilation for smoke, dust or fume removal.

- Tough ABS plastic housing, polyester vane
- Small and lightweight; only 4 oz.
- Measure low air velocities from 25 to 400fpm

- Accurate to  $\pm 5\%$  of full scale to 100fpm and  $\pm 10\%$  from 100fpm to top of scale
- Has a spirit level to ensure accurate readings and large scales for easy reading
- Includes steel mounting bracket for continuous monitoring



Cat. No.	Description	Price
S512699	Swing Vane Anemometer	126.00/Ea

### Astronomy

## 3B Scientific™ Pendulum with Plotting Electrode

Cylindrical pendulum bob with sliding plotter electrode for experiments to confirm Kepler's law governing areas covered by a body subject to a central force that can be demonstrated by means of powder tracing.

- Steel, with metal ball chain
- Dimensions: 60mm x 40mm dia.
- Weight: 500g



Cat. No.	Description	Price
S05509	Dimensions: 60mm x 40mm dia.	102.00/Ea

## Celestron™ Travel Scope Portable Telescope

Telescopes and tripods that fit inside a custom backpack for easy traveling and storage.

- All coated-glass optical elements for clear, crisp images
- Erect image diagonal so that your views are correctly oriented
- Smooth functioning altazimuth mount with easy pointing to located objects
- Preassembled aluminum full-size photographic tripod ensures a stable platform
- Quick and easy no-tool setup
- Magnification 1: 18x, Magnification 2: 45x
- 14.17 in. length
- Resolution: 2.79 Arc sec. (Rayleigh), 2.32 arc sec. (Dawes)



**INCLUDES:**

Both models include backpack and *The Sky X: First Light* edition CD-ROM

Cat. No.	Description	Price
S01920	Travel Scope Portable Telescope	63.50/Ea

## Celestron™ Cometron FirstScope Telescope



Cometron FirstScope is a compact, lightweight telescope ideal for beginner astronomers looking to experience a comet, planet, or nebula. This tabletop, Dobsonian-style telescope includes a spherical mirror with 76 mm of aperture.

- Fast focal ratio offers a wide field of view, perfect for observing comets, star clusters, galaxies and more
- Lightweight and portable, a great grab-and-go telescope
- Simple design makes it easy for beginners to use
- No-tool setup means you are up and observing in no time



**INCLUDES:**

5x24 finderscope and 2 Kellner eyepieces

Cat. No.	Description	Price
S72019	Celestron Cometron FirstScope Telescope	60.00/Ea

## Celestron™ Cometron 114AZ Telescope



Celestron's Cometron 114AZ is designed for viewing all types of celestial objects. Features a parabolic mirror to capture the sharpest views of even dim comets. Ideal for even beginner stargazers.

- Quality optical design--parabolic mirror provides sharp image and eliminates spherical aberration
- Fast focal ratio offers a wide field of view, perfect for observing comets, star clusters, galaxies and more
- No-tool setup means you are up and observing in no time
- Lightweight and portable, a great grab-and-go telescope
- Large aperture collects more light and provides more detail



**INCLUDES:**

optical tube, tripod with altazimuth mount, accessory tray, red-dot finderscope, and TheSkyX DVD-ROM astronomy software.

**WARRANTY:** 2 Year Limited warranty

Cat. No.	Description	Price
S72020	Celestron Cometron 114AZ Telescope	237.00/Ea



## Celestron™ NexStar™ SLT Computerized Telescopes

With a fully computerized hand control and a database of over 40,000 celestial objects.

- Fully computerized Altazimuth mount
- StarPointer finderscope to help with alignment and accurately locating objects
- Quick-release fork arm mount, optical tube, and accessory tray for quick, no-tool setup
- Sturdy stainless-steel tripod and accessory tray included
- Good for terrestrial and celestial observing
- SkyAlign allows you to align on any three bright celestial objects, making for a fast and easy alignment process

### INCLUDES:

CD-ROM “The Sky” Astronomy Software, which provides education about the sky and printable sky maps



Cat. No.	Description	Price
S93981A	130 SLT Computerized Telescope	501.00/Ea

## Celestron™ NexStar™ Computerized Telescopes

Ideal for observing and photographing the wonders of space.

StarBright XLT high-transmission coatings come standard on each model along with the StarPointer finderscope to help with alignment and accurately locating objects.

- Internal flip mirror for convenient viewing straight through (with optical diagonal) or at 90° (4 in. model only)
- Quick-release fork arm mount, optical tube and accessory tray for no-tool setup
- Sturdy computerized altazimuth mount
- Internal battery compartment to prevent cord wrap during use
- Ultra-sturdy steel tripod features built-in wedge allowing 4 in. model to be used for astrophotography

- Nearly 40,000-object database with 200 user-definable objects and expanded information on over 200 objects
- SkyAlign allows you to align on any three bright celestial objects, making for a fast and easy alignment process

### 4SE:

- Aperture 102mm (4 in.)

### 8SE:

- 20.32cm (8 in.) aperture

### INCLUDES:

CD-ROM “The Sky” Astronomy Software, which provides education about the sky and printable sky maps



Cat. No.	Description	Price
S93982	4SE Computerized Telescope	504.00/Ea
S93983A	8SE Computerized Telescope	1211.00/Ea

## Celestron™ FirstScope Telescope

An ideal entry-level astronomical telescope.

An Official Product of the International Year of Astronomy 2009.

- High-quality Dobsonian-style stand with a 3.0 in. (76mm) reflector optical tube
- Portable and lightweight tabletop design makes it easy to store, transport and set up
- Easy to observe with — simply move the telescope in the direction of the desired object
- Optical tube displays names of Galileo Galilei and many of history’s most notable astronomers and scientists
- Comes with two eyepieces for low- and high-power observing
- 3.0in. (76mm) reflector optical tube

### ORDERING INFORMATION:

For Accessory Kit (eyepieces, moon filter, CD-ROM, nylon bag), see S98223A.



Cat. No.	Description	Price
S98223	FirstScope Telescope	55.00/Ea



## Celestron™ FirstScope Accessory Kit

Expands the capabilities of the FirstScope telescope to make it more enjoyable and easier to use.

- Enhance the views of the night sky
- Make scope safer to transport

### 12.5mm eyepiece

- Increases the power to 24X

### 6mm eyepiece

- Increases the power to 50X

### Moon Filter

- Reduces brightness of the moon; improves contrast

### CD-ROM “The SkyX”

- Explore and develop an understanding of basic astronomy
- Print star charts
- View beautiful astronomical photos

**WARRANTY:**  
One year



Cat. No.	Description	Price
S98223A	FirstScope Accessory Kit	23.25/Ea

## Celestron™ PowerSeeker Telescopes

Designed for the first-time telescope user; the perfect combination of quality, value, features, and power.

- Quick and easy to set up; no tools required for assembly
- Slow motion controls for smooth tracking of objects
- 3X Barlow lens triples the magnifying power of each eyepiece
- Erect Image Optics and collapsible altazimuth mounts perfectly suited terrestrial and astronomical use
- Fully coated glass optical components with high transmission coatings enhance brightness and clarity
- Finderscope: 5 × 24;  
Star diagonal: 1.25 in. erect image diagonal
- 20mm eyepiece (35X);  
4mm eyepiece (175X)

### PowerSeeker 70 EQ Telescope

- Refractor design
- Aperture: 2.76 in. (70mm)
- Focal Ratio: 10
- Mount: German Equatorial
- Weight 15 lb. (6.8kg)
- Optical Coatings: Multicoated

### PowerSeeker 60 AZ Telescope

- Refractor design
- Aperture: 2.36 in. (60mm)
- Focal Ratio: 11.67
- Mount: Altazimuth
- Weight: 7 lb. (3.18kg)
- Optical Coatings: Fully coated



### INCLUDES:

“The Sky” Level 1 CD-ROM, aluminum tripod, and no-tool tray with eyepiece holder

Cat. No.	Description	Price
S98227	PowerSeeker 70EQ	150.00/Ea
S98227A	PowerSeeker 60AZ	74.00/Ea

## Celestron™ 127EQ PowerSeeker Telescope

Celestron™ Powerseeker Telescopes are a great way to open up the wonders of the universe to the aspiring astronomer.

- Aperture: 127mm (5 in.)
- Focal Length: 1000mm
- Eyepieces: 20mm (50X), 4mm (250X)
- Coatings: Aluminum
- Mount: German Equatorial
- Optical Design: Newtonian Reflector
- Eyepiece 1 Magnification: 50x,  
Eyepiece 2 Magnification: 250x
- Resolution: 1.1 Arc sec. (Rayleigh), 0.91 arc sec. (Dawes)

Cat. No.	Description	Price
S98227C	PowerSeeker 127EQ Telescope	178.00/Ea



## Celestron™ Skyportal WiFi Module

For aligning and controlling telescope wirelessly using smartphone or tablet.

- Plug into telescope’s Hand Control or AUX port and connect to wireless signal with device
- Tap any celestial object that is seen in sky to identify it instantly
- Tap again and telescope slews to that object, centering it perfectly in eyepiece
- Explore 100,000 objects in SkyPortal’s database
- GPS coordinates not required
- Can observe, view astroimages and listen to audio descriptions for hundreds of most popular objects including planets, Orion Nebula, Hercules Open Star Cluster
- Sky Tour feature generates list of all best stars, galaxies and nebulae to view based on your exact time and location
- Unit does not require batteries or external power
- Compatible with following Celestron mounts:  
Advanced VX; CG-5 (requires compatible cable); CGE Pro; CGEM; CGEM DX; CPC; LCM; NexStar Evolution; NexStar SLT; NexStar SE; SkyProdigy (no automatic alignment)

**WARRANTY:**  
2 years

Cat. No.	Description	Price
S13587	Skyportal WiFi Module	110.00/Ea



## Celestron™ Cometron 7x50 Binoculars



Celestron Cometron sleek, portable binoculars feature large objective lenses and multi-coated optics for optimal light-gathering capabilities to bring celestial objects into bright, sharp focus. Ideal for comet watching, stargazing, and viewing craters on the moon.

- Wide field of view reveals a larger portion of the night sky, allowing you to view more of the comet's tail
- Large 50 mm objective lenses have tremendous light-gathering ability, ideal for astronomical use
- Multi-coated optics dramatically increase light transmission for brighter images with increased contrast and resolution
- Large exit pupil provides maximum light during nighttime and low-light viewing sessions
- Strong and durable aluminum housing



### INCLUDES:

Neck strap, carrying case, objective lens caps, eyepiece caps, lens cloth, instruction manual

### WARRANTY:

Limited Lifetime

Cat. No.	Description	Price
S72021	Celestron Cometron 7x50	35.00/Ea

## Celestron™ SkyMaster Binoculars

15X magnification porro prism binoculars ideal for astronomical viewing or for terrestrial use, especially over long distances.

Offer notable large aperture light gathering in an affordable and reasonably lightweight configuration.

- Large 70mm objective lens
- Ultrasharp focus across the field of view
- Multicoated optics for sharp, clear views
- Suitable for terrestrial or astronomical viewing
- Protective rubber covering for ultrafirm grip
- Large center focus knob for easy focusing
- Long eye relief ideal for eyeglass wearers
- Can be used with Tripod (S01918).



### INCLUDES:

Tripod adapter and carrying case

### WARRANTY:

No-fault limited lifetime warranty

Cat. No.	Description	Price
S01917	15X Magnification; 70mm Lens	90.00/Cs

## Celestron™ UpClose G2 Binoculars

High quality and affordable.

- Multi-coated optics increase light transmission resulting in brighter and sharper images with high contrast levels
- Stylish rubber covered aluminum body protects from rough handling
- Ergonomic thumb indents and finger ridges for extra non-slip comfort and ease of use
- Porro prism optical design
- Water resistant
- Soft carrying case
- Binocular straps



### Ideal For:

- Bird Watching
- Sporting Events
- Nature & Wildlife
- Hunting
- Travel & ventures
- Concerts & live events
- Boating

### INCLUDES:

Soft carrying case, binocular straps

Cat. No.	Description	Price
S28084	10X	39.00/Ea
S28088	7X	43.00/Ea

## Celestron™ Eclipsmart™ Solar Binoculars with 25mm Objective Diameter

Provides generous field of view for users to easily locate and view the entire solar disk while observing.

- Compact in size making it good outdoor companion
- Features Solar Safe™ filter technology for safe observation of the sun
- Dual lens non-removable glass solar filters fully meet ISO12312-2
- Durable and rugged for protection during use and storage provided by the rubber armored aluminum body
- Economical and easy to use
- Protection from harmful solar radiation, including both IR and UV light, and filters 99.99% of intense visible light



### INCLUDES:

Soft carrying case, binocular strap

Cat. No.	Description	Optical Design	Field of View	Price
S24543	10 × 25mm	Roof Prism	5.7° (288 ft. at 96 m)	37.00/Ea
S24544	10 × 42mm	Porro Prism	7° (122 m at 1000 m)	70.00/Ea



# Ohaus™ Starter Pen Meters

Convenient, accurate results in seconds.

- Portable and compact
- Single-hand operation
- Durable IP67 waterproof design
- Includes wrist strap for security
- Auto shutdown after four minutes of non-use
- Require four AG13 1.5V microalkaline batteries
- Size/weight: 185 × 45 × 38mm; 110g



ST20

Model	Range	Resolution	Temp. Display	Cat. No.	Price
<b>pH Pen Meters</b>					
ST10	0.0 to 14.0pH	0.1pH	Yes	<b>S05084</b>	\$61.00/Ea
ST20	0.00 to 14.00pH	0.01pH	No	<b>S05085</b>	\$102.00/Ea
<b>ORP Pen Meters</b>					
ST10R	-1000 to 1000mV	1mV	No	<b>S05086</b>	\$133.00/Ea
ST20R	-1000 to 1000mV	1mV	Yes	<b>S05087</b>	\$175.00/Ea
<b>Conductivity Pen Meters</b>					
ST10C-A	0.0 to 199.9µS/cm	0.1µS/cm	No	<b>S05088</b>	\$81.00/Ea
ST10C-B	0 to 1999µS/cm	1µS/cm	No	<b>S05089</b>	\$81.00/Ea
ST10C-C	0.00 to 19.99mS/cm	10µS/cm	No	<b>S05090</b>	\$81.00/Ea
ST20C-A	0.0 to 199.9µS/cm	0.1µS/cm	Yes	<b>S05091</b>	\$117.00/Ea
ST20C-B	0 to 1999µS/cm	1µS/cm	Yes	<b>S05092</b>	\$117.00/Ea
ST20C-C	0.00 to 19.99mS/cm	10µS/cm	Yes	<b>S05093</b>	\$117.00/Ea
<b>Salinity Pen Meters</b>					
ST10S	0.0 to 10ppt	+/- 2.5% FS	Yes	<b>S05094</b>	\$81.00/Ea
ST20S	0.0 to 80.0ppt	+/- 1.5% FS	No	<b>S05095</b>	\$117.00/Ea
<b>TDS Pen Meters</b>					
ST10T-A	0.0 to 100.0mg/L	0.1mg/L	No	<b>S05096</b>	\$92.00/Ea
ST10T-B	0 to 1000mg/L	1mg/L	No	<b>S05097</b>	\$92.00/Ea
ST20T-A	0.0 to 100.0mg/L	0.1mg/L	Yes	<b>S05098</b>	\$117.00/Ea
ST20T-B	0 to 1000mg/L	1mg/L	Yes	<b>S05099</b>	\$117.00/Ea

Choose from five models in a variety of calibrations.



S05084

S05087

S05088

S05091

S05096

S05095

S05098

## Environmental Science

## Agricultural Science

## Water Treatment and Filtration

Develop a knowledge of the processes performed at a water treatment plant and understand the reasons for each.

- Use “polluted” water to perform on a small-scale several procedures that occur in a water treatment plant. Examine the changes in the water after each treatment step is performed.
- Observe physical characteristics of water, such as clarity, color, odor and how each is affected from the beginning of the treatment process until the end.

### INCLUDES:

1500g fine sand, 1500g coarse sand, 1500g fine gravel, 300g activated charcoal, 25g potassium aluminum sulfate (alum), 25g calcium oxide (lime), 5g Kaolin (clay) powder, 5mL green food coloring, 5mL odor agent, 75 plastic cups and 15 stirring sticks

### REQUIRES:

Container large enough to prepare “untreated water” and a sharp item (such as a nail or dissecting probe) for students to poke small holes in the cups used for filtration

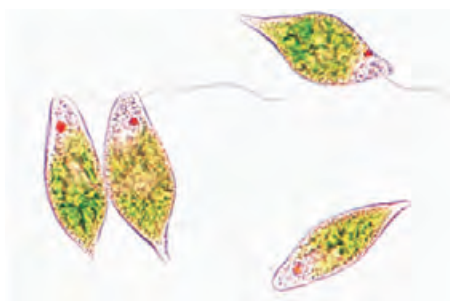


Cat. No.	Description	Price
S97623*	Water Treatment and Filtration Demonstration Kit	64.50/Ea

## 3B Scientific™ Water Pollution Problems and Results Slide Set

20 microscope slides

- 1(d). Intestinal bacteria (*Escherichia coli*) from putrid water
- 2(e). Putrefactive bacteria (*Spirillum*) from sludge poor in oxygen
- 3(d). Putrefactive bacteria (*Sphaerotilus*) bacteria, forming long chains
- 4(d). Sludge bacteria (*Methanobacterium*) causing sewer gas
- 5(d). Sulphur bacteria (*Thiocystis*)
- 6(c). Wasserbluthe (*Microcystis*), blue-green alga “blooming” in stagnant water
- 7(c). *Anabaena*, blue green algae, in eutrophic water
- 8(c). *Spirogyra*, filamentous green alga in nutrient-rich water
- 9(d). *Spirulina*, corkscrew-shaped algae occurring in bitter seas
- 10(c). *Chlamydomonas*, one-celled green alga in eutrophic water
- 11(c). *Cladophora*, green alga from moderately polluted water
- 12(c). Diatoms, mixed algae from scarcely polluted water
- 13(c). *Euglena*, green flagellates occurring in stagnant eutrophic water
- 14(d). Ciliates, different species from nutrient-rich water
- 15(d). Rotifers (*Rotatoria*), small animals from putrid water
- 16(d). *Tubifex*, fresh water oligochaete, living in the sludge



- 17(d). *Carchesium*, stalked ciliate from moderately polluted water
- 18(d). Water mold (*Saprolegnia*), harmful to plants and animals
- 19(d). Skin of fish injured by chemicals, t.s.
- 20(d). Skin ulcer of an amphibian, t.s.

Cat. No.	Description	Price
S95070L	Microscope Slide Set, Water Pollution; 20 slides	251.00/Pk

## Economy Stream Table Kit

Follow the life of a stream with this interactive laboratory exercise.

- Featured in the ESCP program
- Create landforms and follow their erosion and deposition

### INCLUDES:

Plastic tray (L x W x H): 46 x 14 x 2.5 in. (117 x 36 x 6.5cm), drain trough, tray support, siphon tube and teacher's guide

### ORDERING INFORMATION:

Grades 4 to 12.

### REQUIRES:

Sand

Cat. No.	Description	Price
S45158	Stream Table and Supplies	108.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Forensics of Soil and Mineral Analysis

Designed to introduce students to the field of forensic soil analysis.



- Designed to introduce students to the field of forensic soil analysis by providing them with a set of soil and glass samples that have been recovered from a crime scene to compare with a set of samples taken from various suspects
- Students will compare samples based on physical observations using polarized, UV and standard light both under ambient conditions and after heating the samples
- The properties of the samples will be tested by measuring particle size distributions, material acidity, particle density gradient and mineral composition
- This kit contains 10 unique sets of materials that will accommodate up to 30 students when working in groups of 3

### Kit Includes:

- 10 x 1.5mL Universal Indicator
- 28mL Bromoform
- 28mL Bromobenzene
- 10 x 6mL 0.5M Potassium Chromate
- 10 x 6mL 0.5M Hydrochloric Acid
- 10 x 12g Soil Sample A
- 10 x 12g Soil Sample B
- 10 x 12g Soil Sample C
- 10 x 12g Soil Sample D
- 10 x 12g Crime Scene Soil Sample
- 10 Magnifying Glass
- 10 Forceps
- 5 Capped Test Tubes
- 20 Polarizing Filters
- 2 x 10g Glass Sample A
- 2 x 10g Glass Sample B
- 2 x 10g Crime Scene Glass Sample
- 50 Drying Dishes
- 10 Sieve Screen, Small
- 10 Sieve Screen, Large
- 10 Plastic Scoops
- 72 Glass Slides
- 10 Universal Indicator color charts
- Teacher's Manual and Student Study Guide copymasters

Cat. No.	Description	Price
S20639***	Forensics of Soil and Mineral Analysis Kit	212.00/Ea

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Alternative Energy

### LAB-AIDS™ Investigating Photovoltaic Cells Kit

Lets students investigate transformation of energy from sunlight into electrical energy using photovoltaic cells.

- Developed by SEPUP (The Science Education for Public Understanding Program)
- Electrical circuits provide a means of transferring electrical energy
- Investigate solar energy as an example of a renewable energy source
- Explore how to power a motor using the photovoltaic cells and investigate some factors that affect the cell's ability to transform light energy into electricity
- Discuss the advantages and disadvantages of using solar energy



**Note:** If any of your classes have more students than this kit accommodates, you can obtain extra components. Each Enlarge-A-Lab kit contains enough materials for two additional student teams.

### INCLUDES:

- 28 Student worksheet and guides
- One Teacher's guide
- Six Electric motors
- Six Photovoltaic cells
- One Transparency: sample procedure and data table
- Six Red wire leads with clips
- Six Black wire leads with clips
- Six Cardboard sunshields

Cat. No.	Description	Price
S98795	Investigating Photovoltaic Cells	168.00/Ea

## Data Collection

### GSC Go Science Crazy Soil and Composting Thermometer



Soil and Composting Thermometer is easily readable thermometer when measuring soil temperature



- Body has a ball at one end to make it easier to stick the thermometer into the soil
- Sturdy metal construction will stand up to rugged use

Cat. No.	Description	Price
S38987	Soil and Composting Thermometer	9.40/Ea

## Nitty-Gritty Soil Test Kit

Investigate the basics of soil science and healthy plant requirements for proper soil texture, ideal levels of soil pH and nutrients.



- Learn to properly care for plants and perform pH, nitrate, phosphate and potassium soil tests using nonhazardous TesTabs™ methods
- Ideal demos for elementary students

### ORDERING INFORMATION:

Grades 3+.

### INCLUDES:

Reagents for 10 tests for each test factor, games and activities and instruction manual

Cat. No.	Description	Price
S65404	Nitty Gritty Soil Science Kit	40.50/Ea

## Classroom Soil Studies

Study the basics of soil pH and the nutrients nitrate, phosphate and potassium.



- Reinforce key concepts introduced in lecture materials
- Teacher manual includes organizing tips, experiment suggestions, introductory information and student data sheets
- Soil samples for all units
- Reagent refill packages are available

### ORDERING INFORMATION:

Grades 5 to 8. Class size: 25 experiments.

### INCLUDES:

Teacher's manual with lesson plan and soil samples for all units

Cat. No.	Description	Price
S67783	Soil Nitrate Kit	92.00/Ea

## Lead Screening Test Kit

An affordable, safe, and reliable screening test to identify lead in drinking water. Ideal for classroom studies or the professional screening multiple tests on campuses, office buildings, etc.

In 10 minutes the analyst can detect lead levels above 15 ppb—the EPA action level. Just immerse a strip in a water sample and read after a 10 minute waiting period.



- This multi-test package is designed for the professional monitoring multiple sites
- The kit includes 10 test packs with one diagrammed instruction
- Each test comes in a sealed pouch with a test vial and dropper
- Simple test protocol: immerse, wait 10 minutes, and read  
Easy analysis—1 Line or 2 Line result indicates result  
Detects Lead to EPA action level of 15 parts per billion (ppb)

### INCLUDES:

10 test packs and diagrammed instructions

Cat. No.	Description	Price
S29054	Lead Screening Test Kit	97.00/Pk

## GREEN Low-Cost Estuary Monitoring Kit

Simple, nonhazardous methods to test saline and brackish waters found in estuaries.



- Test water samples for coliform bacteria, salinity, dissolved oxygen, nitrate, pH, phosphate, temperature and turbidity
- Supplied with all TesTabs™ reagents and components to test 10 water samples (two samples for coliform)

### INCLUDES:

Manual (in English and Spanish) with diagrammed instructions, laminated color chart, all necessary apparatus and TesTabs reagents

Cat. No.	Description	Price
S65403	Green Low Cost Estuary Kit	66.00/Ea

## Horizontal Water Sampler

Collect water samples quickly and easily!

- Rugged stainless steel components
- Suitable for sampling fresh, brackish or salt water
- For educational use
- Clear acrylic tube holds approximately 1200 mL of sample and allows for visual inspection of sample prior to dispensi



Cat. No.	Description	Price
S37728	Horizontal Water Sampler	282.00/Ea

## Water Pollution Kit



- Examines water quality in suspected or known polluted aquatic environments
- Contains individual test modules for 11 key test factors: dissolved oxygen, chlorine, pH, nitrate-nitrogen, phosphate, ammonia-nitrogen and temperature
- With complete instructions and reagents to perform 50 tests for each factor
- 50 tests

### ORDERING INFORMATION:

Grades 5+.

### INCLUDES:

All kits include a field tote and three handbooks: *A Study of Water Quality*, *Our Environment Battles Pollution* and *Investigating Water Problems*

Cat. No.	Description	Price
S04351	Water Pollution 1 Kit	463.00/Ea

## Turbidity Test Kit

This visual comparison test kit is designed for use in shallow waters where Secchi disc depth reading is not feasible.



- Readings are made by using a standard turbidity reagent to match the turbidity of a water sample
- Measurements are expressed in Jackson Turbidity Units (JTU)
- Reads from 0-200 JTU in 5 JTU steps

Cat. No.	Description	Price
S65414	Turbidity Test Kit	83.00/Ea

## Phosphate Kit

Use in freshwater or salt water.



- Low range phosphate test, 0.2 to 2.0ppm
- Ascorbic acid reagent system produces a blue color in the presence of phosphate
- Enough reagent for 50 tests

Cat. No.	Description	Price
S98239	Phosphate Kit	103.00/Ea



## Total Coliform Test Kit - Recreational Water

An easy-to-use, disposable tube method that indicates the presence of Total Coliform Bacteria.

- The water sample is placed in a tube containing a reagent tablet and incubated at room temperature for 48 hours
- The tube is then examined for positive indicators of coliform bacteria such as color change and formation of gas bubbles
- Each kit contains 44 capped tubes each containing a Coliform Test Tablet, and a set of laminated color chart and instruction flashcards



Cat. No.	Description	Price
S94972	Total Coliform Test Kit	125.00/Ea

## Insta-TEST™ Total Chlorine, pH, Total Hardness & Iron Test Kit

Quick, easy and accurate tests using simple dip-and-read formulation.



Cat. No.	Description	Price
S66233A	Insta-TEST Total Chlorine, pH, Total Hardness & Iron Test Kit	22.25/Ea

**COD Multi-Range Reagent** Chemical oxygen demand reagent systems are an easy and precise way to measure critical COD levels.

- Range: 0 to 15,000ppm (High)
- Mercury-free



Cat. No.	Description	Price
S43593	COD Multi-Range Reagent Systems Vials	52.00/Ea

## fisherbrand Traceable™ Dual Display Light Meter

Zero reference settings for four light sources: tungsten, fluorescent, daylight and mercury. Fisherbrand Traceable Light Meter has two displays with easy-to-read, jumbo-sized 1.38 in. high (3.5cm) digits show lux or foot-candles and the selected light source (daylight, tungsten, fluorescent or mercury).

- Measures Lux in three ranges: 0 to 1999 (1 lx resolution), 2000 to 19,990 (10 lx resolution), 20,000 to 50,000 (100 lx resolution)
- Measures foot-candles in three ranges: 0 to 199.9 (0.1 Ft-c resolution), 200 to 1999 (1 Ft-c resolution), 2000 to 5000 (10 Ft-c resolution) Recalls highest, lowest and average readings
- Data Hold button “freezes” the display to capture readings
- Precise photodiode and color-correction filter provide cosine- and color-corrected measurements
- Displays percent differential from a reference point



**ORDERING INFORMATION:**  
Dimensions: 7 × 3 × 1.25 in. (17.8 × 7.6 × 3.2cm); weight: 9.5 oz. (269g)

**INCLUDES:**  
Photocell, 2 in. dia. (5.1cm); cable, 40 in. long (1m); 9V alkaline battery. RS-232 output allows meter to be connected to a computer or datalogger.

**CERTIFICATIONS:**  
Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S90199	Dual-Display Light Meter	299.00/Ea

## Edvotek™ Dose Makes Poison: Testing Environmental Impacts of Pollution Experiment Kit



Allows scientists to determine the effects of given substance on living organisms.

- Biological assay for environmental pollution
- Inquiry-based lab students plan and perform plant bioassay
- Determines environmental hazard of common point and non-point source pollutants
- Results analyzed using averages, standard deviations, TC50 calculations, integrating STEM



Cat. No.	Description	Price
S42876	Dose Makes Poison: Testing Environmental Impacts of Pollution Experiment Kit	113.00/Ea



Physics

Mechanics

### The Science of Flight: The Spirit of Innovation Classroom DVD Kit

Explains power, process, and principles of flight

- For grades 6 to 12

Cat. No.	Description	Price
S14182	Science of Flight DVD	105.60/Ea

### Single Stage Engines

Model Rocket Engines have been proven consistent and reliable in more than 300,000,000 launches. Refer to the recommended engines listed with the rocket.

- For use with model rockets

**INCLUDES:**

- 24 - reusable starter plugs
- 30 - model rocket starters
- 24 - B6-4 model rocket engines
- 75 - squares of recovery wadding



Cat. No.	For Use With (Equipment)	Price
S41867A	Engines B6-4	74.50/Pk
S41871A	Engines A8-3	74.00/Pk

### Bottle Rocket Launcher

Get a quantitative idea of the effects of varying moments of inertia.

Pressurize a plastic soda bottle with an ordinary bicycle pump (not included). Vary the amount of pressure and/or water fuel to see whose rocket will go the highest. Experiment with different fin styles to observe how changes in design affect flight paths.

- Solid aluminum construction
- Simple triggering mechanism
- Mounting stakes

**INCLUDES:**

Instructions and a paper astrolabe for determining rocket altitude



Cat. No.	Description	Price
S41988	Bottle Rocket Launcher	40.50/Ea

### GSC Go Science Crazy Free Fall Apparatus

Used to study the speed of an object in free fall due to gravity.

A steel ball is held in place by the solenoid while photogates then record data on the metal ball as it passes through them in free fall.

**The Free Fall Apparatus consists of:**

- A triangular metal base with a detachable metal rod for support with level adjuster knobs
- A one meter long aluminum graduated track
- A catch basket at the bottom to contain the steel ball

**INCLUDES:**

- Solenoid 5V operated
- 19mm polished steel ball
- 2 photogates
- Catch basket



Cat. No.	Description	Price
S24653	Free Fall Apparatus	270.00/Ea

### GSC Go Science Crazy Projectile Launcher for Plastic Marbles



Projectile Launcher for Plastic Marbles can launch the plastic marbles a maximum of 8 meters

- Launch tube has five speed settings that can lock into place to assure consistent launches at the same velocities
- Protractor printed on the base to measure the angle of launch
- Photogate (not included) can be attached near the mouth of the launcher to accurately record initial velocity



Cat. No.	Description	Price
S38982	Projectile Launcher for Plastic Marbles	109.00/Ea



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## GSC Go Science Crazy Projectile Launcher

Alter the mass of projectiles and observe the effect on their trajectories. The Projectile Launcher features a built-in clamp to fasten the device securely to tabletops.

- Students can alter the mass of the ball and observe the effect on the ball's trajectory
- The launcher features a spring loaded trigger and easy to use release mechanism that can be adjusted for tension
- A protractor and plumb bob are fixed to the face of the apparatus for determining the angle of inclination
- The built-in clamp is used to secure the apparatus to a tabletop



- Four holes spaced 5cm apart are located at the top and bottom edge and are used for attaching a photogate (not included)
- The kit also included three 25mm balls with a different mass, aluminum, lead and steel

Cat. No.	Description	Price
S13995	Projectile Launcher	98.00/Ea

## Glider Catapult Kit

Helps prepare for high-flying competitions

- With rubber strip
- Includes contest-legal catapult kit constructed of basswood with rubber strip launch elastic



Cat. No.	Description	Price
S12889*	Tech Glider Catapult Kit with Rubber Strip	22.20/Ea

## Advanced Ballistic Pendulum

More versatile, more durable and safer than traditional models.

Anodized aluminum pendulum assembly is durable, lightweight and uses a lighter spring, which is easier to cock and safer to fire.

- Eliminates time-consuming alignments and periodic adjustments when demonstrating energy conversions
- Fully integrated pendulum ratchet pivots on a PTFE sleeve; has etched degree markings to show the displacement angle
- Ball bearings and a nylon gun shaft sleeve help reduce friction and improve experimental results
- Adjustable sleeve varies the radius of gyration for experiments involving the conservation of angular momentum
- Unique clamp designed to produce inelastic collision, capture projectiles and remove projectile without damaging the pendulum
- Muzzle velocity can be determined with the angular deflection markings and the center of mass hash line

### INCLUDES:

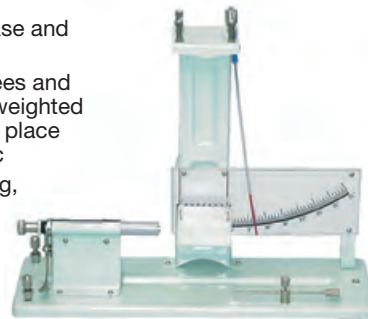
Two steel balls, adjustable sleeve and detailed laboratory manual

Cat. No.	Description	Price
S409643A	Ballistic Pendulum	768.75/Ea

## 3B Scientific™ Economy Ballistic Pendulum

Study the laws of conservation of momentum and the trajectory path.

- Leveling screws on base and nylon pendulum
- Scale marked in degrees and registered by counterweighted needle that remains in place at the height of the arc
- Adjustable, self-locking, spring-loaded gun



**INCLUDES:**  
Instructions

Cat. No.	Description	Price
S97562	Economy Ballistic Pendulum	73.50/Ea

## GSC Go Science Crazy Variable Inertia Apparatus



Variable Inertia Apparatus demonstrates rotational inertia and the effect of weight distribution



- Each disk can be opened up to redistribute steel balls into the eight compartments
- Set comes with two pucks and eight steel balls

Cat. No.	Description	Price
S38981	Variable Inertia Apparatus	13.00/Ea

## GSC Go Science Crazy Inertial Balance

Demonstrate Newton's First Law. The Inertial Balance allows for the measurement of the inertial mass of an object.

- Allows for the measurement of the inertial mass of an object, and is an effective way to demonstrate Newton's First Law
- The Inertial Balance allows for the comparison of both known and unknown masses



Cat. No.	Description	Price
S13996	Inertia Balance	27.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## United Scientific™ Assorted Balls Set

Can be used for all pendulum experiments.

- Balls made of different materials and sizes
- Drilled balls have 3mm holes in center
- Packed in plastic storage box



### INCLUDES:

25mm diameter drilled balls of brass, aluminum, wood, steel, copper and lead; two 25mm solid steel balls (one plain and one with bifilar suspension lugs); 38mm balls of brass, steel and lead with hooks; and one 25mm solid cork ball

Cat. No.	Description	Price
S07367	Assorted Ball Set	122.00/Ea

## 3B Scientific™ Turn Table for Bicycle Wheel Gyroscope

Rotatory platform used with bicycle-wheel gyroscope.

- Allows operation on laboratory stool or as base surface
- Anti-skid design



Cat. No.	Description	Price
S08151	Turn Table for Bicycle Wheel Gyroscope	46.25/Ea

## GSC Go Science Crazy Balloon and Puck Set



Balloon and Puck Set comes with four pucks and four plastic tubes connected to balloons

- Balloons and pucks can be put together without any tools
- Place on a smooth surface to experiment with levitation, elastic collisions, and inelastic collisions



Cat. No.	Description	Price
S38984	Balloon and Puck Set	28.00/Ea

## GSC Go Science Crazy Photogates Set

Set of two photogates with diode and phototransistors.

- Wide opening of 5cm accommodates larger carts, cars or balls



Cat. No.	Description	Price
S09603	Photogates Set	46.75/Ea

## 3B Scientific™ Acceleration Spark Timer

Used to determine the rate of acceleration in a falling weight and calculates the speed of a moving cart.

Easy for the student to calculate the velocity and acceleration or study the forces of friction.

- All parts of the spark timer are enclosed for safety
- 1.75 lb. (0.8kg)
- A paper strip is pulled through the device while sparks burn tiny dots on the paper at very precise time intervals
- The faster the strip passes through the sparks, the larger distance between dots
- 6.25 x 2.75 x 4.25 in. (15.9 x 7.0 x 10.8cm)



### INCLUDES:

Instructions

Cat. No.	Description	Price
S99677	Acceleration Spark Timer	33.75/Ea

## GSC Go Science Crazy Loop the Loop Apparatus

Demonstrates the transformation between kinetic and potential energies.



### Apparatus consists of:

- A 1200mm long graduated aluminum extrusion, with a loop of 150mm diameter
- Two adjustable plastic supports are provided
- In the lower part of the track a catch basket is attached to contain the ball after use

Cat. No.	Description	Price
S24650	Loop The Loop Apparatus	162.00/Ea



## GSC Go Science Crazy Mechanics Kit



The Mechanics Kit will help students build a strong foundational understanding of classic Newtonian mechanics of force, mass and motion



- Eight separate experiments can be achieved using the 26 component parts
- High quality construction will last through years of use
- Experiments:
  - Newton's Law
  - Hooke's Law
  - Resolving Forces
  - Archimedes' Principle
  - Law of Parrallelograms
  - Friction
  - Acceleration

**INCLUDES:**  
instruction guide for 8 experiments

**WARRANTY:** 1 year

Cat. No.	Description	Price
S38985	Mechanics Kit	294.00/Ea

### Properties of Matter

## GSC Go Science Crazy Gas Law Demonstration

Ideal for teaching the relationship between pressure, temperature and volume.

- Contains a screw type plunger that creates pressure or vacuum in the cylinder, depending on the direction the plunger is moved
- A hose is attached from the cylinder to the pressure gauge so you may see the amount of pressure or vacuum being created
- The cylinder is equipped with a temperature probe that changes the digital temperature read-out when air is heated from pressure



Cat. No.	Description	Price
S09586	Gas Law Demonstration	110.00/Ea

## United Scientific™ Equal Volume Squares

Used for specific gravity experiments.

- Available as individual squares
- Made of copper, brass, steel and aluminum



Cat. No.	Description	Price
S07039	Equal Volume Metal Squares Set	28.50/Ea

## United Scientific™ Equal Volume Cylinders

Ideal for specific gravity, density, volume and calorimetry experiments.

- Available as individual and set of cylinders
- Made of aluminium, brass, copper, steel, PVC and wood



Cat. No.	Description	Price
S07034	Cylinder Set	15.75/Ea

## United Scientific™ Diverse Materials Specimen Set

Ideal for density, volume and calorimetry experiments.

- Consisting of aluminum, glass, wood and plastic volume cylinders
- Size: 2 x 0.5 in. (5.08 x 1.27cm)



Cat. No.	Description	Price
S07038	Diverse Materials Set	13.75/Ea

## United Scientific™ Density Cube Sets

- For use in science experiments involving density
- Cube measurements are equal
- 1 in. H x 1 in W

**INCLUDES:**  
One each of acrylic, oak, pine, poplar, steel, aluminum, copper, brass, nylon, and PVC cubes packaged in wooden storage box and a reference table



Cat. No.	Description	Price
S23979	Wooden Storage Box	28.25/Ea



Heat & Thermodynamics

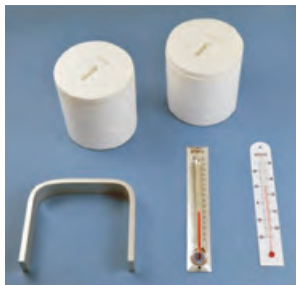
### Eisco Heat Transfer Kit

Introduces concepts of thermal energy and heat transfer to students.

Features aluminum heat transfer bar to demonstrate migration of thermal energy between two Styrofoam calorimeters.

**INCLUDES:**

2 Styrofoam Calorimeters with lids, Aluminum heat transfer bar, Low range thermometer (-40° to +50°C), High range thermometer (-30° to +10°C)



Cat. No.	Description	Price
S12996	Heat Transfer Kit	26.75/Ea

### GSC Go Science Crazy Energy Transfer Demonstration

Investigate the transfer of heat between hot and cold liquids. The Energy Transfer Demonstration allows students to observe heat being transferred through an aluminum bar between two calorimeters by measuring the temperatures over time in each.

Investigate the transfer of heat between hot and cold liquids

- The heat will flow through a heavy aluminum bar dipping into each of those two liquids
- The liquids will be contained in insulated containers, calorimeters, so that temperature changes you observe will be almost entirely due to heat moving through the aluminum bar
- The cup on the right will contain water and the cup on the left can contain a variety of liquids including salt water and alcohol
- The kit includes two insulated cups, two thermometers, an aluminum heat transfer bar and instructions



Cat. No.	Description	Price
S13993	Energy Transfer Demonstration	35.50/Ea

### GSC Go Science Crazy Heat Radiation Demonstration

Measure temperature against time and observe the effect of color on the rapidity of temperature increase. The Heat Radiation Demonstration makes it easy to study what happens when heat reaches a destination.

- This lesson looks at what happens when radiant heat reaches a destination
- The apparatus is very simple, 6 plastic containers of various colors, each with a thermometer in it and a foam cover
- A 25-watt incandescent light bulb provides the radiant heat source
- In studying the impact of color on absorbing heat radiation you will measure temperature against time and observe the effect of color on the rapidity of temperature increase



Cat. No.	Description	Price
S13992	Heat Radiation Demonstration	59.50/Ea

### GSC Go Science Crazy Wind Tunnel Convection Apparatus

Easily display convection current in a wind tunnel. The International Wind Tunnel Convection Apparatus includes a candle and instruction manual.

- As air is heated by candle, it expands and becomes less dense, rising up vertical chimney
- Cooler air is replaced by evacuated air that is pulled into convection current through horizontal chimney
- As convection current cycles, fans positioned on each end of both chimneys begin to spin such that effect of convection current in wind tunnel becomes visual demonstration
- Small amount of smoke can be added to convection current for additional visibility



**INCLUDES:** Instruction manual  
**DISCLAIMERS:** Not a toy. Product intended for ages 13 and up. Use caution when lighting candle!

Cat. No.	Description	Price
S09593	Wind Tunnel Convection Apparatus	35.25/Ea

### GSC Go Science Crazy Melting Point Apparatus

Measures the melting point or temperature at which a substance begins to change from solid to liquid.

- 16 x 2 LCD display
- Membrane keyboard on front panel
- Two sample measurements simultaneously
- Magnifying lens for clear observation
- Includes capillary tubes, closed at one end (pack of 100 tubes)

**Specifications**

- Temperature range: 50 to 400°C
- Input Voltage: 220V AC
- Resolution: 1°C
- Primary Fuse: 2A
- Heater Type/Wattage: Cartridge/200W.
- Dimensions (L x W x H): 250 x 135 x 225mm



Cat. No.	Description	Price
S24649	Melting Point Apparatus	593.00/Ea

## United Scientific™ Thermal Emission Cans

Demonstrates the difference in cooling rates of hot water.

- Two identical sized metal cans with screw cap (one smooth metal and other painted dull black)
- Different surfaces demonstrate the difference in cooling rates of hot water inside the cans attributed to thermal radiation emitted by two cans
- Includes activity guide



Cat. No.	Description	Price
S07020	Thermal Emission Cans	16.00/Pk

## United Scientific™ Heat Conductometer

Demonstrates differences in heat conductivity of aluminum, brass, steel, nickel, and copper.

Introduction: Used to teach concepts of transmission of heat, conductors and insulators, conductivity of a material, and the relation between conductivity and atomic structure.



- Features five radial spokes attached to brass hub
- Each rod is marked with metal name on the hub for identification
- Notches in each rod to contain wax pellet
- Unit comes assembled with supply of wax and activity guide
- Overall dimensions: 38 × 20 × 2.5cm (14 × 7 × 1 in.)

Cat. No.	Description	Price
S12874	Heat Conductometer	13.00/Ea

### Waves, Sound & Light

## GSC Go Science Crazy Wave Kit with Vibration Generator and Chladni Plate



Wave Kit with Vibration Generator and Chladni Plate has all of the necessary components to explore concepts like standing waves, circular waves, and acoustic wave patterns

Kit includes:

- Stand with base and rod
- Chladni plate
- Boss head clamp
- Various Disc Shaped Weights
- Pulley with clamp
- Set of Patch Cords
- Variable Frequency Generator with Power Cord
- Vibration Generator



- Thread Roll
- Instructions
- Pan

Cat. No.	Description	Price
S39006	Wave Kit with Vibration Generator and Chladni Plate	265.00/Ea

## GSC Go Science Crazy Ripple Waves With Stroboscope



- Self-contained unit
- Built-in wave generator
- Dipper can be added to the generator

Cat. No.	Description	Price
S24656	Wave Demonstration	210.00/Ea

## United Scientific™ Flexible Acrylic Mirrors

Flexible, double-sided, acrylic mirrors.

- Assorted sizes



Cat. No.	Description	Price
S07368	Acrylic mirror	18.00/Pk

## GSC Go Science Crazy Prisms

Prisms are a great teaching tool for demonstrations using light.

- Optically clear
- Individually boxed
- Assorted sizes
- Available in glass or acrylic



Cat. No.	Description	Material	Price
<i>Equilateral</i>			
S13667***	25 × 50mm	Acrylic	2.25/Ea
S13672	25 × 150mm	Glass	7.80/Ea
S13671	25 × 100mm	Glass	53.00/Pk
S13670	25 × 75mm	Glass	4.00/Ea
S13669	25 × 50mm	Glass	3.40/Ea
<i>Right Angle</i>			
S13668***	32 × 50mm	Glass	4.00/Ea

## United Scientific™ Prism and Lens Set

Teach a wide variety of optical principles. Set housed in a wooden case. Shipping weight: 2 lb. (0.9kg); box dimensions: 9.25 × 8 × 2 in. (23.1 × 20 × 5cm). Glass and acrylic sets each have seven components.



- Double convex lens
- Double concave lens (can be used together with double convex lens)
- Semicircular lens
- Small right-angle prism
- Trapezoidal prism
- Equilateral prism
- Large right-angle refraction prism

Cat. No.	Material	Price
S90323	Glass	97.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## United Scientific™ Acrylic Demonstration Lenses Sets

Teaching and demonstrating the basic principles of optics.

- Each single-diameter set includes a double convex, plano-convex, concavo-convex, double concave, plano-concave and convexo-concave lens
- Includes an activity guide



### ORDERING INFORMATION:

Comes in a reusable cardboard storage box.

Cat. No.	Diameter (English) Lens	Diameter (Metric) Lens	Price
S42920	1.5 in.	38mm	14.25/Pk

## GSC Go Science Crazy Deluxe Optical Bench

Performs the fundamentals of optics such as image formation, reflection and refraction.

- Height adjustable
- Well-painted square aluminum
- Tilt proof riders for accessories
- Molded supports with leveling screws
- Millimeter-graduated scale fitted to top of bench



### INCLUDES:

- Mounts (12)
- Light source (1)
- Single pointer (1)
- Plane glass (1)
- Cross slit with arrowheads (1)
- Multiple object needle lens holder (1)
- Diaphragm (1)
- Jolly's photometer (1)
- Plane mirror (1)
- Object screen (1)
- Receiving screen (1)
- Grating holder (1)

Cat. No.	Description	Price
S08001	Deluxe Optical Bench	192.00/Ea
S08000D	Lens Holder for Optical Bench	10.50/Ea
S08000K	Diaphragm for Optical Bench	7.70/Ea

## United Scientific™ Optical Bench Set Without Meter Stick

Contains sufficient equipment for high school physics applications.

### Contents:

- 1 Screen support
- 2 Lens Supports for 38mm and 75mm lenses / mirrors
- 1 Marker and object
- 2 Metal supports for meter stick
- 1 Candle holder
- 1 Paraffin candle
- 5 Board screens measuring 10 × 12.5cm with a millimeter scale on both sides



Cat. No.	Description	Price
S05913	Optical Bench Set without Meter Stick	20.25/Ea

## United Scientific™ Periscope

Inspired by naval periscopes used on submarines.

- Hand-held instrument
- Used for demonstrating reflective qualities of light
- Consists of outer case with mirrors at each end set parallel to each other at 45° angle
- Dimensions: 8 × 2 × 2 in. (20 × 5 × 5cm)



Cat. No.	Description	Price
S06979	Periscope	8.95/Ea

## United Scientific™ Intermediate Spectrometer with 30mm Optics

The large 30mm diameter optics give brighter line images and make precise measurements easier.

- Built-in illuminated autocollimator for fast set up
- 17.8cm diameter divided circle
- Double-ended vernier reading to 1' resolution
- 7cm diameter rotatable
- Height-adjusting prism table to accommodate various accessories
- Includes a 300 lines/mm diffraction grating and grating holder, high quality prism, illuminated magnifier, auto-collimation mirror with a power supply for 110VAC, and an instruction manual



Cat. No.	Description	Price
S23926	3mm Optics	1766.00/Ea

## United Scientific™ Spectrum Tubes

The classic demonstration of spectral lines.

Acquaint students with the spectra of common gases in their pure form while demonstrating concept of wavelength.

- 25cm (10 in.) long
- Capillary portion about 4 in. (10cm) long



### INCLUDES:

Sealed electrode, metal endcap, loop for convenient hookup to wire connections. Activity guide comes with each spectrum tube.

Cat. No.	Description	Price
S06999	Air Spectrum Tube	25.00/Ea



## GSC Go Science Crazy Color LED Array Demonstration

Used to demonstrated the relationship between wavelength and color in light. The Color LED Array Demonstration employs ten LED lights of different colors that can be controlled with a rotary switch. Wave length voltage is noted by each LED.

- Through the changing of the LED colors, Planck's constant can be determined by knowing the voltage and wavelength
- A rotary switch can be used to select individuals LEDs or all LEDs
- Wave length voltage is noted by each LED
- Includes 5V DC Amp Power Adapter

**INCLUDES:**

5V DC, 1 amp power adapter



Cat. No.	Description	Price
S13657	LED Array; 9 colors	85.00/Ea

## GSC Go Science Crazy Laser Optics Kit



Laser Optics Kit is ideal for studying optics and the ways light is reflected, absorbed, or transmitted when it encounters various obstacles



The included laser ray box can shoot either one, three, or five parallel beams (650nm) across the provided protractor into a number of obstacle accessories to measure how the light reacts and changes paths

**Included accesories:**

- 1 Circular shape
- 1 Semi-circle shape
- 1 Rectangular shape
- 1 Acrylic bar
- 1 Equilateral triangle
- 1 Right triangle
- 1 trapezoid
- 1 Bi-concave shape
- 1 Plano-convex shape
- 2 Plano-concave shapes
- 6 Bi-convex shapes
- 1 Acrylic mirror
- 1 Equilateral prism (50mm)
- 1 Acrylic tank (125mm)

Cat. No.	Description	Price
S39014	Laser Optics Kit	98.00/Ea

## United Scientific™ Planck's Constant Apparatus

A precision device for measuring Planck's Constant and the work function of electrons in cesium.

- High quality stabilized LED supply and amplifier yield results for h to better than 5%
- All materials included are packed in a compact, lightweight unit



**INCLUDES:**

Five precision plug-in LED modules, a vacuum photocell, an integrated voltmeter and nanometer and control circuitry

Cat. No.	Description	Price
S06983	Planck's Constant Apparatus	1949.00/Ea

## 3B Scientific™ Acoustics Kit

Complete set of equipment for carrying out more than 30 student experiments on acoustics.

- Plastic tray with foam inlay
- Weight: 4.5kg
- Dimensions: 530 × 375 × 155mm<sup>3</sup> approximately



**INCLUDES:**

Includes: CD with experiment instruction, 1 Monochord, with ruler and musical scale, 1 Steel string, 1 Perlon string, 1 Spring balance on support, 1 Reed pipe with 8 valves, 1 Tuning fork with plotter pen, 21 Hz, 1 Tuning fork, 440 Hz, 1 Light-metal tuning fork, 1700 Hz, 1 Pipe, 1 Variable-length closed air column, 1 Tuned open air column, 1 Chladni disc with handle, 1 Galton whistle, 1 Kundt pipe with retaining clip, 5g Lycopodium powder in sprinkling cellar, 1 Metallophone with beater, 1 Rope for demonstrating waves, 1 Helmholtz resonator, 70mm dia., 1 Helmholtz resonator, 52mm dia., 1 Helmholtz resonator, 40mm dia., 1 Helmholtz resonator, 32mm dia., 1 Screw clamp, 1 Plastic block, 1 Plunger

Cat. No.	Description	Price
S05528	Dimensions: 530 × 375 × 155mm <sup>3</sup>	857.00/Ea

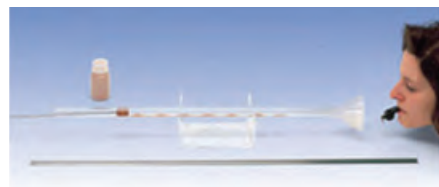
## 3B Scientific™ Kundts Tube

Demonstrate standing sound waves using this glass tube and calculate wavelengths of sound using a method devised by Kundt.

- Cork powder is used calculate wavelength of sound
- Effective length of the tube can be altered by means of a piston
- Length: 600mm
- External diameter: 20mm
- Internal diameter: 17mm

**INCLUDES:**

- One plunger
- One filler chute
- One whistle
- One Glass tube with funnel
- One bottle of cork powder



Cat. No.	Description	Price
S97670	Kundts Tube	101.00/Ea



Electricity & Magnetism

### United Scientific™ Alnico Magnet Set

Set of four powerful Alnico magnets with keepers.



- Two bar magnets: 3.2 × 0.6 in. (80 × 15mm)
- Small horseshoe: 1 × 0.3 in. (25 × 8mm)
- Large horseshoe: 1.4 × 0.6 in. (35 × 15mm)

Cat. No.	Description	Price
S90313	Alnico Magnet Set; Weight: 0.40kg	43.00/Pk

### GSC Go Science Crazy Magnetic Puck Set

Magnetic Puck Set demonstrates elastic collisions



Set of two magnetic pucks will repel each other in a collision on an air table

Cat. No.	Description	Price
S38983	Magnetic Puck Set	22.75/Ea

### GSC Go Science Crazy Magnetic Linear Acceleration Demonstration

Demonstrate magnetic linear acceleration. The Magnetic Linear Acceleration Demonstration is designed to teach the fundamentals of the conservation of energy and momentum principles.

- Designed to teach the fundamentals of the conservation of energy and momentum principles
- This demonstration is unique, as it appears to break the laws of physics, when in reality it obeys them the entire time



Cat. No.	Description	Price
S13994	Magnet Cannon	82.00/Ea

### GSC Go Science Crazy Polarization Experiment



Polarization Experiment allows users to investigate linear polarization, which occurs when the electromagnetic waves of a photon are all aligned in one direction

- Polarizers have a protractor surrounding all sides in order to keep track of the angle of polarization
- When the two polarizers are perpendicular to each other, users can see how polarized light is blocked if it tries to pass through a polarizer facing in the other direction
- Light can exist in three states - unpolarized (such as the light from the sun or a standard light bulb), linearly polarized, or circularly polarized



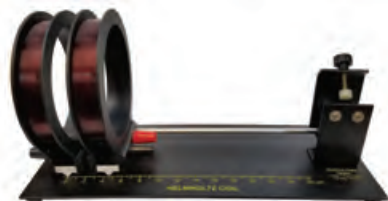
Cat. No.	Description	Price
S39013	Polarization Experiment	80.00/Ea

### GSC Go Science Crazy Helmholtz Coil



Helmholtz Coils are useful for creating near-uniform magnetic fields or for cancelling

Features two 5-inch solenoids each made of 440 turns of enameled copper, a 26cm printed scale and two 4mm induction safety sockets

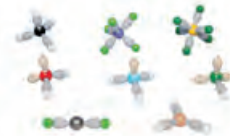


Cat. No.	Description	Price
S39005	Helmholtz Coil	136.00/Ea

### 3B Scientific™ Molecular Shapes: Electron Repulsion Theory

Contains sufficient parts to make eight atomic models.

- Different shapes are examples of bond orientations and cover coordination numbers one through six
- Lone pairs are represented by brown spheres or brown pear-shaped parts
- Two extra pear-shaped parts are included to enable protonated models to be made, such as the formation of H<sub>2</sub>O as a result of the migration of H<sup>+</sup> from Hydrogen Chloride



Cat. No.	Description	Price
S68294	Electron Repulsion Theory	32.75/Ea

## GSC Go Science Crazy Law of Resistance Kit



Law of Resistance Kit includes multimeters that are able to test the electrical resistance of each material



- When a wire is connected to a power supply (sold separately), the included multimeters are able to test the electrical resistance of each material
- Wires are as follows:
  - One 24 gauge constantan (a copper-nickel alloy) wire
  - One 30 gauge constantan wire
  - One 30 gauge iron wire
  - One 30 gauge copper wire
- Also included are two lead sets and two patch cord sets
- Fitted to the board below are four wires with terminals on either end

Cat. No.	Description	Price
S39004	Law of Resistance Kit	126.00/Ea

## GSC Go Science Crazy Field Lines and Equipotential Lines



Field Lines and Equipotential Lines allow users to plot electrical field and equipotential lines to gain a better visualization of the electromagnetic field created when electricity flows through an electrode.

Kit includes:

- 1 Trough with graph print
- 2 Sets of flexible plug leads
- 1 Aluminum needle
- 1 Rod with a socket
- 1 Multimeter
- 1 Cylindrical base
- 2 Bar electrodes
- 2 Disc electrodes
- 1 Ring electrode



- 1 Stand rod
- 1 Boss head
- Instructions

Cat. No.	Description	Price
S39008	Field Lines and Equipotential Lines	197.00/Ea

## GSC Go Science Crazy Transformer Kit

Transformer Kit provides the tools to investigate step-up and step-down transformers, motors, brakes, Eddy current, and shaded-pole motors

Kit includes:

- 5 Coils (one 300 turn, one 600 turn, one 1,200 turn, one 3600 turn, one 12,000 turn)
- 1 U and I core
- 2 Multimeters with leads
- 1 Pair of banana connecting leads
- 1 Plain Quadrant-shaped plate
- 1 Slotted Quadrant-shaped plate
- 1 Aluminum motor disc
- 1 Vertical support rod
- 1 Clamping screw
- Instructions



Cat. No.	Description	Price
S39007	Transformer Kit	265.00/Ea

## Eisco Physics Kit: Electricity System 1

Students can explore common experiments such as Ohm's Law, Series and Parallel Resistance Circuits, Kirchhoff's Laws, and RC Circuits.

- Over 50 components for building circuits
- Use to teach 16 activities
- Includes Activity Guides with Student worksheets

Experiments Covered:

- Simple Electric Circuit with Switches
- Voltmeter Use
- The Voltage Divider
- Ammeter Use
- The Potentiometer as a Variable Resistor
- Ohm's Law and the Voltametric Method
- Series Resistance Circuits
- Parallel Resistance Circuits
- Kirchhoff's First Law
- Kirchhoff's Second Law
- Series Capacitance Circuits
- Parallel Capacitance Circuits
- RC Circuits: Charging
- RC Circuits: Discharging
- The Magnetic Field of a Line of Wire
- The Magnetic Field of a Coil

INCLUDES:

Board for Electricity and Electronics 1, Analog Voltmeter, 0-15 V, 0-1.5 V 1, Analog Ammeter, 0-500 mA, 0-500 mA 1, 100 units resistor 4, 220 Units resistor 2, 470 Units resistor 2, 1 k Units resistor 2, 4.7 k Units resistor 2, 10 k Units resistor 2, 100 Units potentiometer 1, 1000 $\mu$ F capacitor 2, Lamp holder for E10 bulbs 4, Bridging Plug 4, Two cell holder 1, Single cell holder 1, 10 mH inductor (coil) 1, Compass 1, Toggle switch 1, Push button switch 1, Lamp bulb E10, 3.5 V 4, Lamp bulb E10, 6 V 4, Lamp bulb E10, 12 V 4, Cylindrical magnet 1, Ferromagnetic core (hexagonal steel screw & nut) 1, Banana plug cord, 25 cm, red 2, Banana plug cord, 25 cm, black 2, Banana plug cord, 50 cm, red 1, Banana plug cord, 50 cm, black 1



Cat. No.	Description	Price
S13471	Electricity System 1 Physics Kit	399.00/Ea

## LAB-AIDS™ Audible Conductivity Indicator

An alternate to light-sensitive LEDs, this new, inexpensive indicator is sensitive enough to detect the free H<sup>+</sup> ions in water. The nature of solutions and particles in solutions can easily be studied with the safe conductivity indicator. Using a 9V battery (not included) eliminates any possible electric shock. Indicates increasing electrical conductivity by an easily detectable, audible tone that increases in volume and intensity as the conductivity increases. Unit can be used with both liquids and solids.



Cat. No.	Description	Price
S45012A	Audible Conductivity Indicator	34.25/Ea

## Eisco Borosilicate Salt Bridge

The salt bridge is used to connect the oxidation and reduction half-cells of a galvanic cell. It allows ions to flow from one solution to the other without mixing and allows the solutions to remain electrically neutral.

- Comprises an inverted “U” tube with its ends closed by sintered discs.
- For use in experiments involving the measurement of cell EMF under conditions of forward, zero and reverse current flow.
- The bridge comprises an inverted “U” tube with its ends closed by sintered discs.
- This apparatus provides a more effective method of making reversible cells than the wet filter paper or agar gel methods.



Cat. No.	Description	Price
S28009	Borosilicate Salt Bridge	14.50/Ea

## GSC Go Science Crazy International Hoffman Electrolysis Apparatus

Demonstrates qualitative and quantitative measurement of electrical current's effect on liquids.

- Supplied with support stand and clamps for secure suspension of the unit
- Graduated arms 19 in. L with stopcocks at the top
- Graduated to 60mL in 0.2mL subdivisions
- Overall height: 32 in. approx.

### INCLUDES:

Platinum electrodes and instructions sheet



Cat. No.	Description	Price
S43494C	Hoffman Electrolysis Apparatus	264.00/Ea

## GSC Go Science Crazy Neon Wand

Discover why neon gas can be so fascinating.



- Tube-contained gas will light brilliantly when it is held anywhere near a high-frequency Tesla coil
- At 10.6 × 0.55 in. (27cm × 14mm), this wand is easily stored in your classroom or laboratory

Cat. No.	Description	Price
S43509	Neon Wand	16.25/Ea

## Eisco Hand Generator with Light and Banana Terminals

Utilized with almost any experiment requiring up to 12V DC current. Eisco™ Hand Generator with Light and Banana Terminals is a hand operated, housed in clear tough plastic case.

- Hand crank generator up to 12V DC
- Light bulb to show power generation
- Banana plug terminals
- Housed in clear tough plastic case
- Use binding post to connect outside electrical circuit
- Mounted lamp on the end can be used as a flash light



Cat. No.	Description	Price
S23700	Hand Generator with Light and Banana Terminals	17.25/Ea

## GSC Go Science Crazy Static Charge Indicator

Easily and effectively determine if a charge is positive or negative.

- LED lights indicate if charge is positive or negative
- 3 Friction Rods included - acrylic, PVC, and nylon
- 5V power adapter included



Cat. No.	Description	Price
S13927	Static Charge Indicator	30.50/Ea



## United Scientific™ Flask Form Electroscope

Flask form electroscope used to detect invisible electrical charges

- Electroscope is housed in a 250mL Pyrex flask with a metal rod attached to a rubber stopper
- A pair of aluminum leaves is suspended from an alligator clip
- The knob on top of the rubber stopper accepts a charge
- When the charge enters the flask, the aluminum leaves separate



### INCLUDES:

Alligator clips, 2 pairs of aluminum foil

Cat. No.	Description	Price
S12875	Flask Form Electroscope	12.25/Ea

## GSC Go Science Crazy Electroscope Metal Case with Foil

A great apparatus for testing the difference in the electrical potential of an object. The Electroscope is a device used for detecting a difference in electrical potential of an object. The word scope means to see, and the Electroscope is designed to allow you to see the presence or absence of an electrical charge.

Features a glass window box for viewing the demonstration while preventing any unintended motion of the leaves by shielding them and causing the leaves to react only to charges which are intentionally brought to the leaves.

- Metal case with glass windows
- Includes instructions and foil



### INCLUDES:

Instructions

Cat. No.	Description	Price
S13678	Electroscope Metal Case	14.25/Ea

## GSC Go Science Crazy Electra Dough Kits

A super fun kit that allows students to safely experiment with electricity. Allows students to play with materials that are fun, non-threatening and familiar, while learning the basic concepts of electrical circuits.

- Fun way to discover electricity
- Safe and educational
- Includes everything needed



Cat. No.	Description	Price
S13925	Electra Dough Individual Kit	54.25/Ea
S13926	Classroom Kit	114.00/Ea

## Bare Copper Wire

For general lab use and low voltage hook-ups.

### Applications:

- As a fastener
- For electrodes
- To connect circuits
- As a source of copper in electrochemistry experiments



### ORDERING INFORMATION:

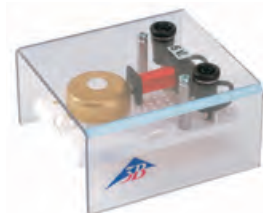
Comes in 1 lb. spool (454g).

Cat. No.	Diameter (English) Inside	Gauge	Length (English)	Price
S4821D	0.0253 in.	22 ga	501 ft.	28.25/Ea
S4821B	0.0403 in.	18 ga	199 ft.	26.00/Ea
S4821A	0.0508 in.	16 ga	126 ft.	26.50/Ea

## 3B Scientific™ Electric Doorbell

Demonstrates electro-magnetic operation and verifies that sound waves do not propagate in fine vacuum.

- Open acrylic housing with 4mm safety sockets
- Power supply: 6VAC
- Dimensions: 100 × 95 × 50mm<sup>3</sup>

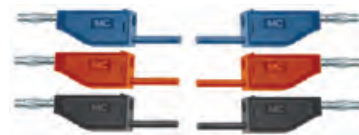


Cat. No.	Description	Price
S08142	Electric doorbell	118.00/Ea

## 3B Scientific™ Low Volt Patch Cords

For low voltage electrical circuits.

Equipped at either end with a laminated plug and a fully insulated axial jack for connecting additional patch cords.



- Copper wire encased in highly flexible PVC
- Maximum continuous current: 19A
- Plug and jack: 4mm (nickel-plated)
- Wire cross section: 1mm<sup>2</sup>
- Set of 15; five each of red, black and blue

Cat. No.	Description	Price
S90371	Low Volt Patch Cords	102.00/Pk

## GSC Go Science Crazy Electrode Mini Disc Set

Electrode Mini Discs are useful in thermal conductivity experiments



Cat. No.	Description	Price
S38992	Electrode Mini Disc Set	45.00/Pk



## GSC Go Science Crazy Ampere's Law Demonstration Kit



Ampere's Law Demonstration Kit consists of a heavy brass wire attached to a transparent plastic base



To demonstrate Ampere's rule using this apparatus, arrange the compasses around the wire, attach the wire to a power supply (not included), and turn it on. The electrical current will cause the compass needles to change directions.

**INCLUDES:**

6 small compasses, 1 large compass

Cat. No.	Description	Price
S38990	Ampere's Law Demonstration Kit	43.25/Ea

Power Supplies & Equipment

## GSC Go Science Crazy AC/DC Variable Power Supply



AC/DC Variable Power Supply handles all power needs between 2V and 12V



- Use the rotary knob to adjust voltage, the rocker switch to turn it on and off, and the toggle switch to reset
- Pair of blue ports will output an alternating current (AC)
- Red and black pair of ports will output a direct current (DC)

Cat. No.	Description	Price
S38991	AC/DC Variable Power Supply	160.00/Ea

## GSC Go Science Crazy Digital Ammeter



Digital Ammeters are used to measure the current, or amperage (A) flowing through a circuit



- Display: 199.9uA
- Display Type: digital
- Dimensions (L x W x H): 13.75 x 17.5 x 11.25cm

Cat. No.	Description	Price
S38993	199.9uA	26.75/Ea
S38994	1.999mA	26.75/Ea
S38995	19.99mA	26.75/Ea
S38996	199.9mA	26.75/Ea
S38997	1.999A	26.75/Ea
S38998	19.99A	26.75/Ea

## GSC Go Science Crazy Digital Voltmeter



Digital Voltmeters measure the potential difference, or voltage (V), between two points in a circuit.



- Display: 199.9uA
- Display Type: digital
- Dimensions (L x W x H): 13.75 x 17.5 x 11.25cm

Cat. No.	Description	Price
S38999	199.9mV	26.75/Ea
S39000	1.999V	26.75/Ea
S39001	19.99V	26.75/Ea
S39002	199.9V	26.75/Ea

## 3B Scientific™ True RMS Auto-Ranging Digital Multimeter

The 3B Scientific True RMS Auto-Ranging Digital Multimeter measures AC/DC voltage, AC/DC current, resistance, diode test and continuity plus thermocouple temperature.



- Also, adds capacitance, frequency and duty cycle to the range of measurements possible
- Includes operations manual detailing features

Cat. No.	Description	Price
S05502	RMS Auto-Ranging Digital Multimeter	103.00/Ea

## Compact Multimeter

Compact design, yet full of key features.

- DC/AC voltage and DC current
- Resistance measurement
- Transistor and diode test function
- Full overload protection
- Operates on one 9V transistor battery
- Dimensions: 5L x 2.88W x 1 in.H (12.7 x 7.3 x 2.5cm)



**INCLUDES:**

- Meter
- Test leads
- Battery
- Instructions

Cat. No.	Description	Price
S47778	Compact Multimeter	16.30/Ea

# LAB ESSENTIALS

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## DIVERSIFIED WOODCRAFTS

# Experts in Classroom Laboratory Furniture

Diversified Woodcrafts™ furniture and casework fulfills the needs of today's modern classrooms. Explore products designed specifically for science, engineering, robotics, industry, art, and more.

**S14215** \$2987.00/Ea

[fisheredu.com/diversified](http://fisheredu.com/diversified)



Furniture

Mobile Units

### Diversified Woodcrafts™ Tall Storage Cabinets with Glass Doors

Provide added storage in style with the Diversified Tall Storage Cabinet with Glass Doors. Each is made of oak veneers with solid wood framed glass doors.

- Two- and four- door cabinets with top and bottom doors divided
- Fixed shelf in middle that allows top and bottom doors to lock separately
- Right hinged doors have lock which locks both right and left hinged doors
- Fixed bottom shelf and two adjustable shelves in bottom and top sections each
- Wood finished with non-emitting UV finish
- Dimensions (D x H): 22 x 84 in.
- Each shelf holds 18.1kg (40 lb.) per square foot
- Width: 91.4cm



Cat. No.	Width	Door Type	Price
S14213	48 in.	4 Glass Doors	1871.00/Ea
S14212	36 in.	4 Glass Doors	3108.00/Ea

### Diversified Woodcrafts™ Tall Storage Cabinet with Maple Doors

Provide added storage in style with the Diversified Tall Storage Cabinet with Maple Doors. Each is made of maple veneers with solid wood framed glass doors.

- Two and four door cabinet with top and bottom doors divided
- Fixed shelf in middle that allows top and bottom doors to lock separately
- Right hinged doors have lock which locks both right and left hinged doors
- Fixed bottom shelf and two adjustable shelves in bottom and top sections each
- Wood finished with non-emitting UV finish
- Each shelf holds 40 lb. (18.1kg) per square foot
- Dimensions: 22D x 36W x 84 in.H and 48 in. doors



Cat. No.	Door Type	Price
S14208	Tall Storage Cabinet with Two Doors	1541.00/Ea

### Diversified Woodcrafts™ Mobile Storage Cabinet



Take your tools with you.

- Locking cabinet
- Adjustable half-depth shelf for storage of tall items
- 4 in. (10cm) ball-bearing locking swivel casters
- 1.25 in. (3.1cm) HP plastic laminate top
- Dimensions: 24L x 36W x 36 in.H (61 x 90 x 90cm)
- Weight: 140 lb. (63.4kg)



**ORDERING INFORMATION:**  
FASTRAK item – ships within five days.

Cat. No.	Description	Price
S94750MF	Mobile Storage Cabinet	1210.00/Ea

### Diversified Woodcrafts™ Mobile Tote Tray Storage Cabinet



The Diversified Mobile Tote Cabinet allows storage of various materials with these large bins.



- Constructed of oak veneers and solid oak with a chemical resistant, earth friendly UV finish
- Rolls easily on 4 in. locking swivel casters
- Two lockable doors swing 270 degrees and conceal 21 tote trays
- Plastic laminate top can double as a work surface
- Mobile capacity: 500 lb.

**ORDERING INFORMATION:**

Tote trays: 19L x 14.25W x 3.5 in. H (48.2 x 36 x 8.9cm); Overall: 24D x 48W x 41.5H; Weight: 231

Cat. No.	Description	Price
S02364MF	Mobile Tote Tray Storage Cabinet	2822.00/Ea

## Diversified Woodcrafts™ Mobile Microscope Storage Cabinet

Share microscopes safely and conveniently.



- 1.25 in. (3.1cm) plastic laminate top
- 4 in. (10cm) ball-bearing, locking, swivel casters
- Removable dividers provide 6 x 11 x 16 in. (15 x 27.5 x 40cm) space for each microscope
- Holds 24 microscopes up to 6 3/4 x 10 x 15 1/2in (WxDxH)

### ORDERING INFORMATION:

**FASTRAK item: S94851MF ships within five days.**

- Dimensions: 48W x 28D x 40 in.H (120 x 70 x 100cm)
- Weight: 202 lb. (91.6kg)

Cat. No.	Description	Price
S94751MF	Microscope Storage Cabinet	1886.00/Ea

### Stools and Chairs

## fisherbrand High-Form Saddle Chair

Fisherbrand™ Polyurethane Saddle Stool allows the user to maintain a standing position while relieving pressure from feet, knees and lower back. Features dual wheel casters suitable for hard floors. Ideal For use during tissue cultures and work at a fume hood.

- Ergonomic polyurethane saddle stool offers extra support while remaining in a standing position
- Our rugged polyurethane round seat is self-skinning, chemical- and puncture-resistant, and fully washable
- Each ergonomic saddle stool is backed by our 15-year warranty
- With backrest
- Seat height: 25 to 34.5 in. (63.5 to 88cm)



Cat. No.	Description	Price
S90501*	High-Form Saddle Chair	354.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## fisherbrand Five-Leg Base Molded Polyurethane Stools

Ergonomic polyurethane stools feature a 360° all-around adjustment ring that can be operated from any position.

- These medium bench height stools feature a black powder-coated steel base with fixed foot ring
- Optional casters available and add 2-inches of height to the chair
- Our rugged polyurethane round seat is self-skinning, chemical- and puncture-resistant, and fully washable
- Each ergonomic stool is backed by our 15-year warranty, lifetime on the pneumatic cylinder
- With Black fixed footring;  
Seat height: 18 to 25 in. (45.72 to 63.50cm)

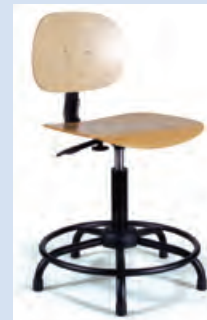


Cat. No.	Description	Price
S68905C	Five-Leg Base Molded Polyurethane Stools	204.00/Ea

## fisherbrand Education Wood Chair with Round Tube Base

Fisherbrand™ Education Wood Chair for Medium Bench features 7-Ply Contoured Furniture-Grade Plywood with natural finish, powder coated steel base, fixed foot ring and stationary glides. For use at a 36 inch (91.44cm) work surface.

- Ergonomic wood chairs are durable making them ideal for almost any environment
- Our wood FisherBrand chairs are constructed with seven-ply furniture grade hardwood
- These medium bench height FisherBrand chairs feature a black powder-coated steel base with fixed foot ring
- Optional casters available and add 2-inches of height to the chair
- Each ergonomic FisherBrand chair is backed by our 15-year warranty, lifetime on the pneumatic lift
- With Black fixed footring;  
Seat height: 20 to 28 in. (50.80 to 71.12cm)



### ORDERING INFORMATION:

Seat: 15.75D x 17.5 in. W (40 x 44cm).  
 Back: 14.75W x 10 in. H (37.5 x 25.4cm).

Cat. No.	Description	Price
S68906	Wood Chair with Round Tube Base	263.00/Ea



### fisherbrand Metal Stools

These Fisherbrand 4-legged metal stools are made of 11-gauge steel and finished with a gray durable powder coating.



- Each stool features a fixed foot ring for added comfort, a 13-inch diameter seat top, and non-marring glides suitable for hard floors
- These stools are not adjustable, but are available in 18-inch, 24-inch, and 30-inch heights to fit just about any work surface
- Each 4-legged stool is covered by our 3-year warranty.

Cat. No.	Description	Price
S68908B	Four-leg Base; Seat Height: 24 in. (61cm)	70.50/Ea
S68908C	Four-leg Base; Seat Height: 30 in. (76cm)	80.00/Ea

### Kik-Step™ Stool

Rubber bumper at bottom prevents damage to walls and equipment.

Spring-loaded casters retract for sure footing each time you step on. When you step off, the stool rolls smoothly.



- 500 lb. (226.8kg) capacity
- Wide rubber band around base protects gray enamel finish
- Two steel steps are cushioned with rubber matting for secure footing
- Dimensions: 14.5H x 15.5 in. (36.8 x 39.4cm) base diameter

Cat. No.	Description	Price
S51101	Kik-Step Stool	146.00/Ea

### Storage Cases and Bookcases

### Herbarium Specimen Cabinet



Protect plant specimens from damaging elements conveniently and easily.

- All steel construction
- Door opens to the right
- Dimensions: 19L x 29W x 29 in.H
- Rigid chrome push-plate and three-point locking system
- Air space at the rear and front of shelves permits circulation of fumigants
- Elastomeric seal and powder paint finish will not cause off-gassing
- Double-wall construction and elastomeric seal keep out air and other damaging elements
- Features lift-off hinges, fumigant compartments, chrome label holders and a paracentric key lock
- 26 Shallow shelves allow folders to be removed easily and permit genus folders to overhang
- Double-panel airtight door and fold at the front of the shelf protect specimen folders



**INCLUDES:**

S51056MF includes three-point locking mechanism.

Cat. No.	Description	Price
S51056MF	Herbarium Specimen Cabinet	3097.40/Ea

### Heavy-Duty Steel Stools

Available with optional adjustable height and/or backrest.



- Made of 0.875 in. (2.2cm), 18-gauge steel tubing
- Seat is a comfortable 14 in. (35.6cm) wide with 11.5 in. (29.2cm) Masonite™ board, recessed to avoid chipping and cracking
- Four legs with 0.625 in. (1.6cm) foot ring welded at each point
- Selected models feature 6 x 12 in. (15.2 x 30.5cm) backrest that moves front/back and up/down
- Adjustable stools offer customizable seat height for taller students or higher lab desks
- Overall width: 16.8 in. (42.7cm)

Cat. No.	Height (English)	Seating Height	With Backrest	Price
S98086MF	30 in.	Bench Height	No	67.00/Ea
S98085MF	24 in.	Bench Height	No	54.00/Ea

## Safety

## Aprons

Fisher Scientific™  
PVC Aprons

Reusable blue PVC apron with cotton ties at the waist and neck.



Cat. No.	Size	Price
S47381A	Small	9.35/Ea
S47382A	Medium	12.50/Ea

Fisher Science Education™ PVC  
Apron of the Elements

Displays current periodic table with properties of 114 elements.

- Reusable
- Blue
- Made of PVC (polyvinyl chloride)
- Cotton ties at the waist and neck



Cat. No.	Size	Price
S32134A	Small	10.75/Ea
S32135A	Medium	10.75/Ea

Fisher Scientific™ Transparent  
PVC Aprons

Reusable transparent PVC apron with cotton ties at the waist and neck.



Cat. No.	Dimensions (L × W)	Price
S475651A	36 × 27 in. (91.4 × 68.6cm)	9.55/Ea
S475652A	42 × 27 in. (106.7 × 68.6cm)	13.50/Ea

fisherbrand  
Disposable  
Polyethylene Apron

Lightweight plastic apron is sturdy enough to be reused.

- Thickness: 1.0mil
- White
- Sold in handy dispenser pack



Cat. No.	Description	Price
S98418	Disposable Polyethylene Apron; White; 50/Pk.	36.25/Pk

## Emergency and First Aid

## Bulk First Aid Kits

Designed for large facilities.

- Contain economical bulk supplies that can be readily accessed when needed
- Latex-free
- Weatherproof
- Supplies housed in waterproof plastic case



## ORDERING INFORMATION:

Rapid refill kits available separately. For complete lists of kit contents, visit [www.fisheredu.com](http://www.fisheredu.com).

## COMPLIANCE:

ANSI™ Z308.1-2003 compliant.

Cat. No.	Description	Sufficient For	Price
S98413C	First Aid Kit	50 Persons	87.00/Ea

## Adhesive Bandages

Easy handling and application.

- Easy to open, even with gloved hands
- Just pull firmly on the ends to release the outer wrap
- Apply the bandage directly without touching the pad or the wound
- Each bandage individually wrapped and sterile



Cat. No.	Dimensions (L × W)	Description	Price
S47527A	0.75 × 3 in.	Sheer Bandage	11.00/Pk
S47527D	1 × 3 in.	Flex Bandage	13.25/Pk

## Read About Eye Protection

The Fisher Science Education brand offers a full line of goggles and spectacles that meet OSHA standards for eye protection. The information provided below will help you choose the eye protection that is best suited to your application. For additional information and assistance in selecting eye protection, contact Fisher Science Education customer service at 1-800-955-1177.



OSHA requires that eye and face protective devices meet ANSI™ standard Z87.1-1989 for Occupational and Educational Eye and Face Protection.



To comply with OSHA regulations, eye protection equipment must:

- Provide adequate protection against the hazards for which it is designed
- Be reasonably comfortable under the conditions of use
- Fit securely without interfering with vision or movement
- Be durable
- Be kept clean and in good repair

Standards for Eye and Face Protective Equipment ANSI standard Z87.1-1989 details strict requirements for impact and penetration resistance. Rigorous testing includes a high-mass impact test and high-velocity impact test for spectacles, goggles, and faceshields. All protective spectacles and goggles in this section meet this standard. ANSI Z87.1-1989 also emphasizes that



protective eye devices do not provide complete protection and should not be used as substitutes for protective measures such as mechanical hoods and operational controls.

## Protective Spectacles

Use these glasses for impact protection against flying particles. Protective spectacles feature plastic, nylon, graphite, or metal frames



and removable, vented, or solid sideshields for added protection from dust or particles. Solid sideshields are recommended when working with potentially infectious materials. All protective spectacles have strong polycarbonate lenses that provide impact resistance and durability, as well as protection from ultraviolet (UV) radiation. Because pits or scratches in lenses may affect impact resistance, lenses should be inspected regularly and replaced if lenses are damaged.

## Impact Goggles

These goggles provide more peripheral protection from flying particles than protective spectacles. Perforations in goggle frames provide airflow for comfort and help prevent fogging. Some lenses also feature an antifog coating. Many goggles are designed to fit over prescription eyewear and some will accommodate extra-large eyeglass frames.

## Chemical Splash Goggles

Using indirect vents, these goggles protect against splashes of hazardous chemicals or potentially infectious materials. A labyrinth ventilation system rejects



contaminants and provides excellent splash protection. Strong polycarbonate lenses provide durability, clarity of vision, and UV protection. Faceshields feature acetate, propionate, or polycarbonate windows for full facial protection against sparks, splashes, and splatter. Polycarbonate windows also provide UV protection, while some specially treated or coated windows offer heat reflection or protection from infrared radiation (IR). Faceshields are secondary protection and must be worn with protective spectacles or goggles.

**ANSI Z87.1-2003 is a voluntary upgrade to the current standard that divides impact resistance into categories of basic or high. Many manufacturers have embraced the upgrade and, when necessary, modified popular models to meet these standards.**

## Eyewear

## Glasses

**fisherbrand 200 Series Safety Glasses**

Economical, lightweight protection.

- One-piece clear, hard-coated lens provides a full and unobstructed field of vision
- Absorb >99.9% of harmful UV light
- Molded-in sideshields and browguards
- Adjustable spatula temples

**COMPLIANCE:**

Meet ANSI™ Z87.1-2003 standards.

**CERTIFICATIONS:**

CSA-approved.

Cat. No.	Frame Color	Price
S01822	Black	44.00/Pk
S01821	Blue	44.00/Pk

**fisherbrand Visitorspec Safety Glasses**

Ideal for protecting visitors in industrial or medical settings.

- Blue temples

**Uncoated Lens**

- 100% impact-resistant polycarbonate wraparound unlens design with blue temples
- Clear lens absorbs >99.9% of harmful UV light

**Coated Lens**

- 100% impact-resistant lens absorbs >99.9% of harmful UV light
- Polycarbonate wraparound style with molded-in browguard and single lens
- Coated to resist scratching, fogging and static
- Adjustable-length spatula temples ensure a secure, comfortable fit

**COMPLIANCE:**

Meet ANSI™ Z87.1-2003 standards.

Cat. No.	Lens Type	Price
S01820	Uncoated	30.00/Pk
S01819	Scratch-resistant, Anti-fog, Anti-static	45.00/Pk

**fisherbrand Racer Series Qualifier Eyewear**

- Scratch-resistant, clear polycarbonate lenses block >99.9% of harmful UV radiation
- Wraparound design offers superior side coverage
- Lightweight frames are durable and comfortable
- Flared single-lens design provides sleek protection
- A soft nose bridge and soft, bayonet-style side arms grip the face and temples lightly but firmly for a comfortable fit



Cat. No.	Frame Color	Price
S98420	Qualifier Eyewear, Black Frame	87.00/Pk

## Goggles

**fisherbrand Economy Chemical-Resistant Goggles**

Affordable chemical-resistant goggles.

- Clear polycarbonate lens
- Soft, flexible PVC body molds to facial contours for a comfortable fit
- Adjustable headstrap ensures custom fit
- Resist a broad range of chemicals
- Circular vents allow air to flow freely through goggle body

**COMPLIANCE:**

Meet ANSI™ Z87.1-2003

Cat. No.	Description	Price
S68660A	Chemical Splash Goggles	5.00/Ea

**fisherbrand Economy Impact Goggles**

Affordable impact goggles.

- Clear polycarbonate lens
- Direct vents on goggle top and sides
- Soft, flexible PVC body molds to facial contours for a comfortable fit
- Adjustable headstrap ensures custom fit
- Shield eyes from dust, mist and other airborne particles

**COMPLIANCE:**

Meet ANSI™ Z87.1-2003 and CSA standards.

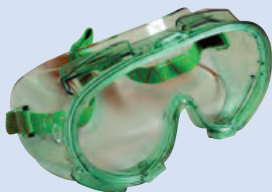
Cat. No.	Description	Price
S01824	Economy Impact Goggles	6.00/Ea



## fisherbrand Chemical Splash Goggles

Lens coated to minimize scratching and fogging.

- Built for comfortable protection with a soft, flexible PVC body that conforms to facial contours
- Large frames fit over most prescription eyewear
- Coated, clear polycarbonate lens resists impact, scratching and fogging
- Headstrap easily adjusts for a custom fit
- Resist a wide range of chemicals and feature indirect ventilation to direct airflow over the lens



### COMPLIANCE:

Meet ANSI™ Z87.1-2003

Cat. No.	Description	Price
S01817	Chemical Splash Goggles	9.00/Ea

## fisherbrand V-Maxx™ Chemical Splash and Impact Goggles

Comfortable fit ensures protection — even for contact wearers.

Offer protection against impact, dust, mist and chemical splash.

- FogBan™ lens coating
- Wraparound design provides maximum coverage and 180° field of vision
- Soft rubber construction ensures secure, comfortable fit
- Large enough to be worn over prescription glasses



### COMPLIANCE:

Meet ANSI™ Z87.1-2003 and CSA™ Z94.3 standards.

Cat. No.	Description	Price
S68660	Impact Goggle; Neoprene Headband	19.25/Ea

## Crews™ Standard Goggles

Protective goggles with perforated styling for maximum ventilation.

- Made of PVC for comfortable fit over prescription eyewear
- Polycarbonate lens filters 99.9% of harmful UV rays
- Latex-free elastic strap
- Duramass™ scratch-resistant coating
- Size: Small



Cat. No.	Description	Price
S14246	Standard Goggles	2.83/Ea

## Standard Size Chemical Goggles

Soft vinyl goggle frame conforms to facial contours for a secure fit.

- Fog-free coated lens and four indirect vents minimize fogging
- Fit comfortably over most prescription eyewear
- Fit most adults and high school students



### COMPLIANCE:

Meet ANSI™ Z87.1 standards.

Cat. No.	Description	Price
S63095	Chemical Goggles	12.50/Ea

## Colored Safety Goggles

Can be used any time students need reliable eye protection.

- Sized just right for students and adjustable for adults
- Set of six pairs of goggles in three bright, translucent colors (red, blue and green)



### ORDERING INFORMATION:

Grades K+.

### COMPLIANCE:

Meet ANSI™ Z87.1 safety standards.

Cat. No.	Description	Price
S90821	Colored Safety Goggles	32.05/Pk

## Eyewear Cleaning

## Sight Savers™ Disposable Lens Cleaning Station

Requires no maintenance and is perfect for a school.

- Ideal for cleaning lenses, glass and plastic surfaces
- Heavy-duty corrugated cardboard construction resists moisture
- Can be displayed on a counter or wall mounted

### INCLUDES:

16 oz. (473mL) pump spray with non-silicone lens and general cleaning solution and 1520 large 4.75 × 6.5 in. (12 × 16.5cm) tissues



Cat. No.	Description	Price
S94898	Disposable Lens Cleaning Station	126.50/Cs

## Premoistened Lens Cleaning Towelettes

Fast and easy way to keep lenses clean.

- For use on glass, plastic or polycarbonate safety goggles, shields and computer screens
- Help reduce eyestrain caused by dirty eyewear
- Excellent cleaning without streaking
- Silicone-free, antistatic, antifog formula



### ORDERING INFORMATION:

Individually foil wrapped. Packed in ready-to-use dispenser pack with built-in eye hook for easy wall hanging.

Cat. No.	Description	Price
S01814A	Premoistened Lens Cleaning Towelette	12.10/Pk

## Eisco Goggle Sanitizer Cabinet

UV light kills the germs on goggles after laboratory use.

- Wall-mounted or bench top unit runs on 120VAC
- Heavy gauge CRC steel treated with white enamel finish
- Unit has doors and includes 15 minute timer with UV bulb
- UV light operates only when doors are closed
- Light leak avoided by tight fitting piano style hinges
- Sterilization process is indicated by indicator light
- Use to sanitize 35 pairs



Cat. No.	Description	Price
S07817	Goggle Sanitizer; 120VAC	645.00/Ea

## Economy Ultraviolet Goggle Sanitizers

Sanitize and store 30 to 40 goggles or safety glasses in the same cabinet.

- High-quality, 24-gauge, white baked enamel sheet metal
- 15-minute mechanical timer gives controlled treatment
- Two safety door switches, key lock and pilot light
- Long-life ultraviolet bulbs
- S47604B has a reflective aluminum interior



### ORDERING INFORMATION:

Shipped assembled and ready for use. UL-approved. Electrical requirements: 110V 50/60Hz.

Cat. No.	Description	Price
S47604A	Goggle Sanitizer	668.20/Ea
S47604B	Goggle Sanitizer with Reflective Aluminum Interior	554.80/Ea

## Eyewash Stations

### Opti-Klens™ Wash Fountain

Chrome-plated, solid brass unit easily installs on any existing sink or basin faucet as a permanent eye wash fountain, yet does not interfere with normal faucet functioning.

- Water supply in an emergency is limitless, unlike with portable models
- Unit frees both hands to hold eyes open to the flow of water
- No new plumbing is required
- Supplied with two of the most common adapters
- Other adapters are available from the manufacturer at no additional cost
- Spray configuration on Opti-Klens II allows both eyes and face to be washed



### COMPLIANCE:

Meets ANSI Standard #Z359.1-1990 for an eye wash unit.

Cat. No.	Description	Price
S96046A	Opti-Klens I Eyewash	133.00/Ea

## Safety Shower Tester

Test overhead safety showers with this complete flow test kit.

- Provides minimum disruption to the educational environment

### INCLUDES:

- Three-piece PVC handle
- 11 in. dia. (27.9cm) support ring
- 83 in.L (211cm) nylon taffeta sleeve
- Polyethylene bucket with dust cover lid
- Test log



Cat. No.	Description	Price
S477041	Shower Tester with Bucket Kit	113.00/Ea

## Faceshields

### fisherbrand Disposable Faceshield

High-quality, optically clear, distortion-free 7mil film.

- Polyester lens is treated with antifog and antistatic coating
- Headpiece is held in place by a stretch strap and includes a latex-free foam band for comfortable extended wear
- 7 mil thick

### COMPLIANCE:

Conform to OSHA 29CFR Part 1910.1030 for bloodborne pathogens and the CDC's recommendations for protective eyewear.



Cat. No.	Style	Price
S98127	Disposable Faceshield	65.95/Pk

## Large Weighted Safety Shields

Transparent shield provides high-impact resistance.

- Laboratory workers are protected by a 0.188 in. (4.7mm) thick clear, polycarbonate barrier
- Stable three-sided construction provides front and side protection against flying debris
- Heavy steel perimeter base is coated with blue epoxy
- Plated steel bolts, nuts and washers used for assembly
- Outside base measures 19.5 in. (50cm) and 6.5 in. (17cm) front to back, width is 11.5 in.
- Shields meet High Mass Impact Test and High Velocity Impact Test as defined by ANSI Z87.1, sections 9.11 and 9.12, respectively



Cat. No.	Height (English)	Weight (English)	Price
S51222	30 in.	18.5 lb.	629.00/Ea
S51223	36 in.	19.6 lb.	536.00/Ea

## 3M™ N95 Particulate Respirator

Lightweight and comfortable with snug, secure seal.

At least 95% NIOSH tested filter efficiency for use where solids or non-oil-based liquid aerosols are present.

- Synthetic elastic headband
- Adjustable nose clip helps provide a custom fit and reduces the potential for eyewear fogging
- Soft nose foam



These safety products must be used in accordance with OSHA regulations and the user instructions, warnings and limitations accompanying each product.

### ORDERING INFORMATION:

Sold in packs of 20.

### COMPLIANCE:

Meets NIOSH 42CFR84 N95 requirements; NIOSH approval TC-84A-0007.

Cat. No.	Description	Price
S47062A	N95 Particulate Respirator	41.50/Pk



**FISHER SCIENCE EDUCATION:**  
MAKING SCIENCE MATTER

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## Fire Safety

### Fiberglass Fire Blanket in Packet

Lightweight and stored in a highly visible packet.

- Smother fires, wrap a burn victim or shield against encroaching flames
- Stored in a highly visible, red vinyl packet that opens easily
- Woven glass fiber material is totally safe to handlers
- Stitched with flame-proof thread
- Red



Cat. No.	Length (English)	Width (English)	Price
S47560B	6 ft.	4 ft.	99.00/Ea
S47560A	4 ft.	4 ft.	92.00/Ea
S47560C	6 ft.	6 ft.	125.00/Ea

## Gloves

### fisherbrand Powder-Free Nitrile Exam Gloves

Choose a latex-free glove with exceptional durability and puncture resistance. Fisherbrand™ Powder-Free Nitrile Exam Gloves provide a superior fit, comfort, tactile sensitivity and dexterity.

- Provide superior fit, comfort, tactile sensitivity and dexterity
- Contains no latex proteins that can cause allergic reactions
- Textured surface for solid grip in wet or dry conditions
- 4mil thick at palm, 4.7mil at fingertip



Cat. No.	Size	Price
S79585XS	X-Small	34.00/Pk
S79585S	Small	34.00/Pk
S79585M	Medium	34.00/Pk
S79585L	Large	34.00/Pk
S79585XL	X-Large	34.00/Pk
S79585XXL	2X-Large	34.00/Pk



## fisherbrand Powder-Free Nitrile Exam Gloves with Aloe

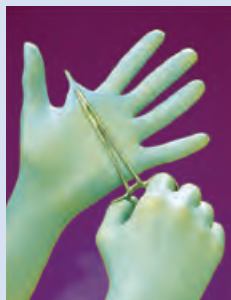
Help moisturize and soothe dry, chapped hands. Fisherbrand™ Powder-Free Nitrile Exam Gloves with Aloe are the perfect choice for situations that require gloves for an extended period of time. Textured surface for a superior grip.

Offer superior puncture and chemical resistance.

- Nonsterile, ambidextrous
- Length: 9.5 in. (24.1cm)
- Thickness: 5.6mil
- Green
- Textured surface for superior grip
- Unique, 100% latex-free, odor-free synthetic formulation reduces hand fatigue

### CERTIFICATIONS:

510K approved for medical use



Cat. No.	Size	Price
S66382	Small	28.25/Pk
S66383	Medium	28.25/Pk
S66384	Large	28.25/Pk
S66385	X-Large	28.25/Pk

## fisherbrand Powder-Free Latex Exam Gloves

Gain a better grip with textured surgical quality gloves. Fisherbrand™ Powder-Free Latex Exam Gloves provide a watertight barrier for protection from infectious materials.

Flexible, durable and comfortable gloves are ideal for medical, laboratory and industrial applications.

- Made of surgical-quality natural rubber latex
- Puncture- and tear-resistant with textured fingers
- Beaded cuff promotes easy donning
- Powdered gloves have a smooth finish and are lightly dusted with USP absorbable dusting powder
- Powder-free gloves are fully textured for excellent gripping power
- Ambidextrous, nonsterile, single-use
- Length: 9.5 in. (24cm)
- Thickness: 5mil
- White

### ORDERING INFORMATION:

Dispenser box of 100 gloves.

### ⚠️ ALERTS:

**This product contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.**



Cat. No.	Size	Price
S473383	Small	23.25/Pk
S473384	Medium	23.25/Pk
S473385	Large	23.25/Pk

## Microflex™ XCEED™ Ergonomic Nitrile Exam Gloves

Utilize breakthrough polymer technology and manufacturing process to offer a soft and comfortable nitrile glove. Microflex™ XCEED™ Ergonomic Nitrile Exam Gloves rival the fit of latex while providing up to 60% more strength.

- Beaded cuff
- Textured fingers
- Lightweight and comfortable with less than 3 mil palm thickness
- Reduce hand fatigue and help workers be more productive while exerting less muscle effort
- Contains no natural rubber latex or powder to help protect wearers from skin allergies, irritation, and dryness



### COMPLIANCE:

MDD 93/42/EEC; PPED 89/686/EEC Category III; Complex Design; EN 455 1, 2, AND 3; EN374-3; EN374-2 LEVEL 3 AQL.65; ASTM D6319; EN420; Reach Compliant; TGA; US QSR/FDA 510(K)

Cat. No.	Size	Price
S28982	Small	50.50/Pk
S28983	Medium	50.50/Pk
S28984	Large	50.50/Pk
S28985	X-Large	50.50/Pk

## Microflex™ MidKnight™ Black Nitrile Exam Gloves

Hide stains and provide a contrasting backdrop for identifying lighter colored material with a distinct black color. Microflex™ MidKnight™ Black Nitrile Exam Gloves offer a high tensile strength compared to both ASTM D6319 and EN455 standards, allowing the hands to move freely and comfortably.

- Fully textured design and non-foaming formula enable wearers to have a firm wet grip when handling objects
- Contain no natural rubber latex and are powder-free to help protect wearers from Type I skin allergies, skin irritation, and dryness
- Recommended for use in environments that demand firm grip and reliability, and where precise contact requires enhanced tactile sensitivity
- Single use only
- Ambidextrous
- Beaded cuff, standard examination length
- Black
- Non-sterile



### COMPLIANCE:

MDD 93/42/EEC; PPED 89/686/EEC Category III; Complex Design; EN 455 1, 2, and 3; EN374-3; EN374-2 Level 2 AQL 1.5; ASTM D6319; EN420; Reach Compliant; TGA; US QSR/FDA 510(K)

Cat. No.	Size	Price
S28986	X-Small	22.25/Pk
S28987	Small	22.25/Pk
S28988	Medium	22.25/Pk
S28990	X-Large	22.25/Pk



## Microflex™ Supreno™ SE Heavy-Duty Nitrile Exam Gloves

Emphasize strength and protection for work in environments that demand consistent grip and reliability. Microflex™ Supreno™ SE Heavy-Duty Nitrile Exam Gloves offer advanced barrier protection against contaminants due to lower acceptable pinhole rates.

- Offer advanced barrier protection against contaminants due to lower acceptable pinhole rates; 0.65 Acceptance Quality Limit for pinholes
- Non-stick properties create a resistance to tape or adhesives to increase speed and efficiency
- Textured fingers ensure strong, efficient grip and maximize protection
- Polymer coating for easy donning and doffing
- Constructed without natural rubber latex or powder to help protect from allergies, skin irritation, and dryness
- Blue
- Non-sterile
- Beaded



Cat. No.	Size	Price
S28996	X-Small	27.50/Pk
S28992	Small	27.50/Pk
S28993	Medium	27.50/Pk
S28994	X-Large	27.50/Pk

## Disposable Polyethylene Food Service Gloves

Resistant to most chemicals, reagents and acids.

For non-precision food preparation and service applications

- Made of polyethylene-blended film
- Extra-long cuffs
- Medium weight (1mil thickness)
- Tough and durable, premium-weight, soft embossed glove
- Easy-on and off for jobs requiring frequent changes
- Textured for enhanced grip and hand comfort
- Economical, lightweight



Cat. No.	Size	Price
S47328	Small	14.75/Pk
S47330	Medium	14.75/Pk
S47332	Large	14.75/Pk

## Heavy-Duty Rubber Gloves

Long-wearing, natural rubber gloves with cotton lining.

- Protect hands from burns, caustics and contamination
- Resist acids, caustics and abrasions
- Soft cotton lining absorbs perspiration
- Straight cuffs
- Nonslip finish
- Length: 13 in. (33cm)
- Thickness: 18mil
- Color: Orange
- Size: 9
- 21 CFR 177-2600, FDA



### ORDERING INFORMATION:

Pack of 12 pairs.

**⚠ ALERTS:**  
 These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.

Cat. No.	Description	Price
S47368	Heavy-Duty Rubber Gloves	75.00/Dz

## Autoclave Gloves

Excellent for handling hot objects out of the autoclave or oven.

- Heat-resistant up to 232°C (450°F); replace asbestos gloves
- Terry cloth knit gloves
- Provide superior protection in the school laboratory
- Washable
- Bright orange color keeps gloves visible



### CERTIFICATIONS:

CE marked.

**⚠ ALERTS:**  
 Product is not waterproof and should not be used to handle dry ice.

Cat. No.	Length (English)	Price
S47334	13 in.	38.00/Pair
S47341	18.5 in.	51.00/Pair

## Hot-Hand™ Protector Glove/Mitt

Mitt protects hands when handling extremely hot or cold objects, including dry ice

- Use for handling hot and cold objects from -57°C (-70°F) to 260°C (500°F)
- Soft and compliant silicone rubber naturally conforms to hand and object Gripping surfaces studded with small concave nubs for positive grip and additional protection against temperature extremes
- Easier and faster to use than glove or tongs for many applications
- Tab with hole for hanging hand protector near work station
- One size fits all hands, left or right 10 × 19cm (3.875 × 7.5 in.)



Cat. No.	Description	Price
S47371D	Hot-Hand Protector Glove/Mitt	30.00/Ea

## Water-Resistant Cryo-Gloves™

Cryogenic protection in ultra-cold environments.

Multi-layer gloves consist of a breathable, water-resistant outer shell and three layers of insulating material.



- Temperature (Metric) Max: -196°C
- Handle dry ice and items from low-temperature freezers, blast freezers and coldrooms
- Mid-arm length is 13.5 to 15.25 in. (34.3 to 38.7cm)
- Made in the U.S.A.

### ORDERING INFORMATION:

Sold per pair.

**⚠ ALERTS:**  
Not recommended for immersion in liquid nitrogen.

Cat. No.	Size	Price
S47319	Medium	212.00/Pair
S47320	Large	212.00/Pair

## Lab Coats

### Tyvek™ Lab Coats

Disposable, yet strong enough to withstand several wearings.

- Lightweight and tear-resistant Tyvek fabric
- Knee-length with two pockets, a five-snap front and full sleeves
- Inherent barrier protection against dry particulate hazards
- Chemically and biologically inert
- Provide limited splash protection
- White



### ⚠ ALERTS:

Garments made of Tyvek should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

Cat. No.	Size	Height (English)	Size (English) Chest	Price
S475561	Small	5 to 5.07 ft.	32.25 to 35.75 in.	9.20/Ea
S475562	Medium	5.03 to 5.07 ft.	35.25 to 38.75 in.	9.20/Ea
S475563	Large	5.05 to 5.09 ft.	38.25 to 41.75 in.	9.20/Ea
S475564	X-Large	5.08 to 6.02 ft.	41.75 to 45.25 in.	9.20/Ea

### United Scientific™ Lab Coats

Well fitted and comfortable men's style coats.

- Made of easy-care white cotton blend fabric (65% polyester, 35% cotton)
- Knee-length
- One upper left breast pocket
- and two roomy lower pockets
- With side slit openings and adjustable belt
- White
- Open cuffs style



Cat. No.	Closure Type	Size	Price
S04776	Button	Small	37.25/Ea
S04777	Button	Medium	37.25/Ea
S04778	Button	Large	37.25/Ea
S04779	Button	X-Large	37.25/Ea

## Labeling and Tape

### fisherbrand Hazard and NFR Identification Write-On Labels

Ideal for adding vital hazard information to surfaces of small bottles, cans, and other containers.

Blank hazard classification diamond can be filled in with the appropriate ratings.

#### Large Labels

- Spaces for Chemical Name, Hazards and Precautions
- Check boxes for goggles, gloves, apron and fume hood
- Dimensions: 5W × 3 in.H (12.7 × 7.6cm)



#### Small NFR Labels

- Spaces for Chemical Name, Owner and Date
- Dimensions: 3.88W × 1.5 in.H (9.9 × 3.8cm)

Cat. No.	Quantity	Height (English)	Width (English)	Price
S475646	100 Roll(s)	3 in.	5 in.	26.75/Pk
S43188	1000 Roll(s)	1.5 in.	3.88 in.	55.25/Pk

### fisherbrand HMIG and NFR Write-On Labels

Ideal for adding vital hazard information to surfaces of small bottles, cans and other containers.

- HMIG paper labels are large enough to include the chemical name, common name and manufacturer name
- NFR labels let you write in the chemical name, owner, date and hazard rating



#### ORDERING INFORMATION:

Labels measure 3.87L × 1.5 in. W (9.8 × 3.8cm).

Cat. No.	Display Text	Price
S98411	NFR	56.50/Pk
S98410	HMIG	56.50/Pk

Safety Cans

## Polyethylene Red Liquid Disposal Cans

High-density polyethylene offers superior chemical resistance and leak protection.

- For containment of flammable wastes and flammable corrosives
- Large and strategically placed opening offers controlled filling and pouring during disposal
- Fixed position on handle allows lid to stay open for easy pouring
- When closed, cap automatically vents at between 3 and 5psig
- Stainless-steel flame arrester guards against outside ignition
- Certifications/Compliance: FM
- Diameter (English) Opening: 3.65 in.
- Diameter (English) Outer: 12 in.



Cat. No.	Capacity (English)	Height (English)	Price
S04779MF	2 gal.	14.75 in.	128.00/Ea
S04778MF	5 gal.	20 in.	115.00/Ea

## FM-Approved Biohazard Waste Container

For safe, temporary collection of biological waste.

Safely segregate biohazard waste to ensure proper disposal of blood- or pathogen-contaminated laundry items and pathological and microbiological wastes.

- Leakproof, sturdy steel construction with foot-operated, self-closing lid
- Eliminate any reason to reach into waste area
- Hold biohazard bag (sold separately) securely around circumference of can top
- Large biohazard label clearly identifies the contents
- Capacity: 10 gal. (38L)



**⚠ NOT TO BE USED FOR DISPOSAL OF SHARP ITEMS.**

**COMPLIANCE:**

Complies with OSHA 29CFR1910.1030.

**CERTIFICATIONS:**

FM approved

Cat. No.	Description	Price
S04777MF	Biohazard Waste Container	96.00/Ea

## Biohazard Disposal Can

Ideal for biological/biohazard materials, broken glass, recyclables or other waste.

Autoclave bags (19 × 23 in. [48.3 × 58.4cm]) fit perfectly over a stainless-steel internal wire frame to keep bags open for safe and easy access.

- Polypropylene construction
- Puncture resistant
- Bright red color for high visibility
- For biohazard disposal
- Autoclavable at 250°F (121°C)
- Dimensions: 9 × 12 × 11.5 in. (22.5 × 30.5 × 29cm)



Cat. No.	Description	Price
S96727	Biohazard Disposal Can	67.00/Ea

Spill Control

## fisherbrand Universal Mini Economy Spill Kit

Ideal for quick cleanup of small drips and spills.

- Six individually packaged kits per box
- Each kit absorbs 0.6 gal. (2.3L)
- Lightweight, high-capacity particulate sorbent (also available separately) is nonbiodegradable, inert, noncorrosive, nontoxic and nonflammable
- Instantly absorbs oils, acids (except hydrofluoric acid), bases, chemicals and toxic liquids



**INCLUDES:**

One carton of super sorbent; one pair each of goggles and nitrile gloves; one dustpan/broom; one disposal bag; universal instruction sheet.

**CERTIFICATIONS:**

Sorbent is National Sanitation Foundation (NSF) certified

**COMPLIANCE:**

Sorbent exceeds landfill rules and passes Paint Filter and TCLP tests

**⚠ ALERTS:**

**Not suitable for use with hydrofluoric acid.**

Cat. No.	Description	Price
S47442	Spill Kit	22.00/Ea

## fisherbrand Absorbent Liners

Economical, highly absorbent bench liners protect surfaces from spills, allowing for safe and easy cleanup.

Made of highly absorbent three-ply tissue with a polypropylene backing.

- Economical
- Waterproof and resistant to most chemicals
- Absorb spills
- Retain liquids
- Soft and durable
- Cushion surfaces
- Can be cut to size

- 3 ply
- Width: 20 in.

### ORDERING INFORMATION:

S98128 comes in case of six; S98129 sold by single roll.

Cat. No.	Length (English)	Price
S98128	50 ft.	45.00/Ea
S98129	300 ft.	159.00/Cs



## Lab-Sized Spill Cleanup Kits

Contain, remove and tag spills fast.

- Contains enough absorbent and neutralizing agent to safely clean up a 0.26 gal. (1L) spill.

### INCLUDES:

#### Acid Spill Cleanup

One instruction sheet/SDS; two gloves; two 9 × 16 in. (22.9 × 40.6cm) polybags; two twist ties; two blank shipping tags; one dust pan and brush; one bag vermiculite absorbent; one bottle neutralizing mixture (Calcium Hydroxide, Sodium Carbonate, Calcium Carbonate and Litmus Powder).

#### Caustic Spill Cleanup

One instruction sheet/SDS; two gloves; two 9 × 16 in. (22.9 × 40.6cm) polybags; two twist ties; two blank shipping tags; one dust pan and brush; one bag vermiculite absorbent; one bottle neutralizing mixture (Citric Acid Anhydrous and Litmus Powder).

#### Solvent Spill Kit

One instruction sheet/SDS; two gloves; two 9 × 16 in. (22.9 × 40.6cm) polybags; two twist ties; two blank shipping tags; one dust pan and brush; one bag diatomaceous earth.



Cat. No.	Description	Includes	Price
S80201A*	Acid Spill Kit	1 instruction sheet/MSDS, 2 vinyl exam gloves, two 9 x 16 in. polybags, 2 twist ties, 2 blank shipping tags, 1 dust pan and brush, 1 bag vermiculite absorbent, 1 bag neutralizing mixture	60.00/Ea
S80201B	Caustic Spill Kit	1 instruction sheet/MSDS, 2 vinyl exam gloves, two 9 x 16 in. polybags, 2 twist ties, 2 blank shipping tags, 1 dust pan and brush, 1 bag vermiculite absorbent, 1 bag neutralizing mixture	55.00/Ea
S80201C*	Solvent Spill Kit	1 instruction sheet/MSDS, 2 vinyl exam gloves, two 9 x 16 in. polybags, 2 twist ties, 2 blank shipping tags, 1 dust pan and brush, 1 bag diatomaceous earth	51.00/Ea

## Fisher Scientific™ Universal Spill Kit

Small enough to fit on a lab bench.

- Universal sorbent eliminates guesswork — safe for use on all chemicals except hydrofluoric acid
- Kit absorbs 2.5 gal. (10L)
- Contains 2.5 lb. (1.1kg) carton of universal sorbent
- Each 4 × 14 × 1 in. (10.2 × 35.6 × 2.5cm) lab pillow (also available separately) absorbs 0.22 gal. (750mL)

### INCLUDES:

One carton of super sorbent; six pillows; two pads; one pair each of goggles, nitrile gloves and latex boots; one disposal bag; universal instruction sheet.

### ⚠ ALERTS:

**These products contain natural rubber latex, a component of which may cause allergic reaction in some users. Use only as directed and in accordance with manufacturer instructions and warnings. Please consult your institution's policies regarding use of these products.**

**Sorbent and pillows not suitable for use with hydrofluoric acid.**



Cat. No.	Capacity	Description	Price
S47441	2.5 gal., 10L	Universal Spill Kit	94.00/Ea
S47440	0.22 gal., 0.83L	Lab Pillow	78.00/Pk



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



Storage Cabinets

## Sure-Grip™ EX Countertop Safety Cabinets for Flammables

For storing small quantities of flammable liquids at the work station or adding existing storage cabinets



### Countertop Cabinet

- One-door cabinet holds 15L (4 gal.) of flammables
- One adjustable shelf
- Allows increased access to often-used liquids without compromising safety
- Portable size keeps work areas flexible
- Optional wall hanger assembly for wall mounting

### Undercounter/Stand-Alone Cabinet

- One-door cabinet stores up to 45.5L (12 gal.) of flammables
- One adjustable SpillSlope™; safety shelf directs spills to back and bottom of leakproof sump
- Fits neatly under counter or stands alone
- Lettering on door reads: "FLAMMABLE-KEEP FIRE AWAY"
- High-visibility Haz-Alert™; reflective warning labels provide added safety during power outages or fires
- Finished inside and out with a durable lead-free hybrid epoxy and polyester powder paint for chemical resistance
- With one adjustable shelf
- Sure-Grip U-Loc™; flush handle comes with two keys or accepts padlock (not included) for extra security
- Meets NFPA and OSHA requirements

### INCLUDES:

Optional wall hanger assembly for wall mounting; One adjustable shelf. Sure-Grip™ U-Loc™ flush handle comes with two keys or accepts padlock (not included) for extra security.

Cat. No.	Type	Capacity (English)	Door Style	Price
S04772MF	Countertop Safety Cabinet	4 gal.	Manual Close	456.00/Ea
S04773MF	Countertop Safety Cabinet	4 gal.	Self Closing	541.00/Ea
S98409MF	Storage Cabinet	12 gal.	Manual Close	913.68.00/Ea

### CERTIFICATIONS:

FM approved. Self-closing models UL listed

### COMPLIANCE:

Meet NFPA and OSHA requirements. Self-closing models comply with Uniform Fire Code

## Sure-Grip™ EX™ Blue Steel Safety Cabinets for Corrosives

Epoxy baked-on powder coat finish provides increased chemical resistance and resists solvents used in labs.

- Double-wall construction, dual vents, grounding wire connections, adjustable shelves, leakproof sills, three-point self-latching doors and leveling feet
- Self-close door shuts and latches automatically when fusible link melts at 74°C (165°F) under fire conditions
- Unique, concealed self-closing mechanism offers obstruction-free access to contents
- Opens to full 180 degrees and self-latches when pushed closed
- Includes polyethylene trays attached to galvanized steel shelves, separate polyethylene liner for bottom sump resist aggressive chemicals, extra polyethylene work tray that can be secured to cabinet top for handy work surface
- Easily remove liner for quick cleaning of drips and leaks
- All epoxy baked-on powder-coat finish, inside and out, provides increased chemical resistance

### INCLUDES:

Polyethylene trays, Polyethylene liner, Extra polyethylene work tray

### WARRANTY: 10 years

### COMPLIANCE:

Meet NFPA Code 30 and comply with OSHA regulations. Self-closing models meet NFPA 1, IFC regulations.

### CERTIFICATIONS: FM approved



Cat. No.	Capacity (English)	Door Type	No. of Doors	No. of Shelves	Price
S15221MF	4 gal.	Manual	1	1	525.00/Ea
S15218MF	30 gal.	Manual Closing Door	2	1	918.00/Ea
S15219MF	30 gal.	Self-Closing Door	2	1	1090.00/Ea

## Sure-Grip™ EX Flammables Safety Can Storage Cabinets With Handles

Keep dangerous liquids safely organized and segregated. Justrite™, Sure-Grip™, EX Flammables Safety Can Storage Cabinets With Handles feature flush mounted handles, two keys for security and have the ability to be padlocked. Dual vents with flame arresters allow hazardous vapors to be piped away.

- Sure-Grip EX flush-mounted door handle does not interfere with traffic; comes with two keys for security and can be padlocked (padlock not included)
- Exclusive self-latching feature ensures that cabinet doors are safely closed without manually engaging door handle
- Double-wall construction provides 1.5 in. (3.8cm) of insulating air space to help prevent spread of flames
- High-visibility Haz-Alert™ reflective warning labels offer added safety during power outages or fires
- Dual vents with flame arresters at top and opposite bottom allow hazardous vapors to be piped away
- Easy-closing, self-latching doors facilitate fire protection of the cabinet
- Fusible links hold self-closing doors wide open, flush with front of cabinet for easy access and resupply; automatically release and slam doors shut at 74°C (165°F)
- Concealed self-close mechanism provides optimum storage space and obstruction-free access to contents
- Two-door models hinged left and right have self-closing mechanism that ensures proper closing sequence regardless of which door is released first
- SpillSlope™ safety shelves direct incidental spills to the back and bottom of leakproof sump
- Adjustable leveling feet ensure solid positioning and alignment for tight door closure
- Exterior side panel has built-in grounding connector for easy grounding
- Finished inside and out with durable lead-free powder paint
- Meet OSHA and NFPA requirements



Cat. No.	Description	Price
S28708	30 gal. Cabinet with Self-Closing Door	1147.00/Ea

## Wood Laminate Storage Cabinets for Corrosives and Acids

Suitable for storing highly corrosive liquids such as phenol, nitric acid and sulfuric acid.

- Long-lasting wood construction provides exceptional strength
  - Stainless-steel handles and hinges resist corrosion from harsh acids
  - Shelves adjust on 32mm centers to accommodate wide variety of containers
  - Sturdy clip system adjusts shelves if required
  - Two doors
  - Color: blue
- Countertop Model**
- Ideal for smaller quantities used at workbench level
  - No shelves
- Undercounter Model**
- Can be used freestanding
  - One adjustable shelf
  - With removable, easy-to-clean polyethylene work surface top recessed 16mm to help contain incidental leaks



### INCLUDES:

Adjustable leg levelers, patent pending Haz-Alert™ reflective labels and double key set for safety and security

Cat. No.	Capacity	Dimensions (D x W x H) Interior	Type	No. of Shelves	Price
S04764MF	6 x 2.5L bottles	15.28 x 22.48 x 19.44 in. (38.8 x 57.1 x 49.4cm)	Countertop Storage Cabinet	0	497.00/Ea
S04765MF	36 x 2.5L bottles	20.85 x 34.4 x 29.49 in. (53 x 87.6 x 74.9cm)	Undercounter Storage Cabinet	1	1153.00/Ea

Lab Equipment

Balances

## Ohaus™ Scout™ SKX Portable Balances

Offers superior overload protection in a sleek, low profile and stackable design.

- Large, backlit LCD display
- Multiple connectivity options like Bluetooth, Ethernet, USB and more
- Rapid stabilization and high resolution
- For classroom use
- Stackable design
- Kensington security slot (cable sold separately)
- Calibration mass included (all models up to 620g)
- 6 different weighing units; g, kg, N, oz, lb, lb:oz

- Powered by AC adapter (included) or by 4 AA batteries (not included)
- Integrated weigh-below hook
- Transportation/storage lock



**Applications:**

Ideal for education-specific weighing applications, density determination and molar mass calculations.

Cat. No.	Model	Capacity	Readability	Stabilization Time	Price
S14529	SKX123	120 g	0.001 g	1.5 sec.	634.00/Ea
S14530	SKX222	220 g	0.01 g	1 sec.	459.00/Ea
S14531	SKX422	420 g	0.01 g	1 sec.	652.00/Ea
S14535	SKX421	420 g	0.1 g	1 sec.	267.00/Ea
S14532	SKX622	620 g	0.01 g	1 sec.	766.00/Ea
S14536	SKX621	620 g	0.1 g	1 sec.	371.00/Ea
S14533	SKX1202	1200 g	0.01 g	1.5 sec.	878.00/Ea
S14537	SKX2201	2.2 kg	0.1 g	1 sec.	473.00/Ea
S14534	SKX2202	2.2 kg	0.01 g	1.5 sec.	990.00/Ea
S14538	SKX6201	6.2 kg	0.1 g	1 sec.	795.00/Ea
S14539	SKX8200	8.2 kg	1 g	1 sec.	391.00/Ea

## Ohaus™ Pioneer™ Analytical and Precision Balances

Designed for basic, routine weighing in laboratory or educational applications.

- External calibration (Excal) model
- Bright backlit LCD
- RS-232 interface
- Easy-to-clean analytical draftshield with easy-to-remove-and-replace glass panels, including three sliding doors (see table for included models)
- Selectable environmental settings: Three filter modes and adjustable zero tracking adjust balance sensitivity to environmental disturbances, or application requirements
- Design features: Stability Indicator, Auto tare, Manual calibration lock, Software lockout menu, Software reset menu, User selectable communication and printing settings, Auto standby, Mechanical and software overload/underload protection, Up-front level bubble indicator, Intergral weigh below hook, Security bracket

**Specifications**

- **Application Modes:** Weighing, Parts Counting, Percent, Density Determination, Dynamic Weighing
- **Weighing Units:** mg, g, ct, oz, dwt, tical, tola, mommes, baht, grain, mesghal, Newton, ozt, custom unit
- **Operating Conditions:** 50°F/ 10°C to 104°F/40°C at 10% to 80% relative humidity, non-condensing, up to 4000m above sea level
- **Storage Temperature:** -40°F/-40°C to 158°F/ 70°C at 10% to 80% relative humidity, non-condensing
- **Taring Time:** One second
- **Display:** Backlit LCD



**Note**

Cat. No. S05025 through S05030 come with a draft shield.

**INCLUDES:**

- AC adapter
- In-use cover

Cat. No.	Model	Capacity (Metric)	Readability	Includes	Price
S05025	PA84	85g	0.1mg	Draftshield	1730.00/Ea
S05028	PA163	160g	1mg	Draftshield	1039.00/Ea
S05027	PA224	220g	0.1mg	Draftshield	2306.00/Ea
S05029	PA323	320g	1mg	Draftshield	1110.00/Ea
S05030	PA523	520g	1mg	Draftshield	1645.00/Ea
S05031	PA1602	1600g	10mg	Without Draftshield	934.00/Ea
S05033	PA3202	3200g	10mg	Without Draftshield	1217.00/Ea
S05035	PA2201	2200g	100mg	Without Draftshield	906.00/Ea

## Fisher Science Education™ Portable Balances

Superior performance in an affordable, portable balance.

- Excellent shock resistance and overload protection
- Three-button operation
- Draft shield flip top with integrated sample tray, standard for all models
- Integral weigh-below hook, critical for density or specific gravity determination Security bracket RS-232 or optional USB snap-in module allows data connection to PC or printer
- Stackable design
- Shipping load cell lock (overload protection up to 200 lb.)
- 50-hour battery life with auto shutoff
- RS0232 (S02266) or USB interface cable (S02267) are available separately



### INCLUDES:

AC adapter

### REQUIRES:

Three AA batteries, Security bracket cable

### WARRANTY:

One year

Cat. No.	Model	Capacity	Readability	Stabilization Time	Price
S94792E	SLF501	500 g	0.1 g	3 sec.	234.00/Ea
S94792C	SLF302	300 g	0.01 g	3 sec.	492.00/Ea
S94792D	SLF301	300 g	0.1 g	3 sec.	200.00/Ea
S94792K	SLF303	300 g	0.001 g	3 sec.	705.00/Ea
S94792F	SLF901	900 g	0.1 g	3 sec.	302.00/Ea
S94792B	SLF152	150 g	0.01 g	3 sec.	358.00/Ea
S94792A	SLF103	100 g	0.001 g	3 sec.	542.00/Ea
S94792J	SLF5000	5 kg	1 g	3 sec.	236.00/Ea
S94792G	SLF1501	1.5 kg	0.1 g	3 sec.	235.00/Ea
S94792H	SLF3001	3 kg	0.1 g	3 sec.	482.00/Ea

## Fisher Science Education™ Precision™ Balances

Dependable measurements and reliable performance.

- Simple three-button operation
- Weighing units: Grams and Newtons
- Large 7 in. (22.9cm) high weighing chamber and three-door draft shield included with 200g and 400/100g models
- Sealed front panel and molded spill ring for fast, easy cleanup
- Integrated security bracket
- Large, single-line LCD display (not backlit)
- Stainless-steel weighing pan
- RS-232 interface



### INCLUDES:

AC adapter

### WARRANTY:

Two years

### COMPLIANCE:

UL and CSA approved.

Cat. No.	Model	Capacity	Readability	Stabilization Time	Price
S94791A	AMF203 AM	200 g	0.001 g	3 sec.	1333.00/Ea
S94791B	AMF402 AM	400 g	0.01 g	3 sec.	975.00/Ea
S94791C	AMF602	600 g	0.01 g	3 sec.	1066.00/Ea
S94791D	AMF1202	1200 g	0.01 g	3 sec.	1270.00/Ea
S94791E	AMF2002	2 kg (72 oz.)	0.01 g	3 sec.	1374.00/Ea



## Fisher Science Education™ Analytical Balances

Dependable mass measurement for solution preparations.

- Simple three-button operation
- Weighing units: Grams and Newtons
- Large, 9 in.H (22.9cm) weighing chamber with three sliding glass doors accommodates flasks and beakers
- Sealed front panel and molded spill ring for fast, easy cleanup
- Integrated security bracket
- Large LCD display
- Three sliding glass doors
- Stainless-steel weighing pan
- RS-232 interface
- Electrical requirements: 120VAC 60Hz

**INCLUDES:**  
AC adapter

**WARRANTY:**  
Two years

**COMPLIANCE:**  
UL and CSA approved



Cat. No.	Type	Linearity	Readability	Model	Stabilization Time	Price
S94790C	Analytical	0.3mg	0.1 mg	AMF204AM	4 sec.	2537.00/Ea
S94790B	Analytical	<±0.2mg	0.1 mg	AMF104	4 sec.	2174.00/Ea
S94790A	Precision	<±0.2mg	0.1 mg	AMF64	3 sec.	1576.00/Ea

## Ohaus™ Scout™ STX Portable Balances with Touchscreen Display

The all new Ohaus Scout with intuitive color touchscreen interface offers superior overload protection in a sleek, low profile and stackable design.

- Fast response time and repeatable weighing results
- Rapid stabilization and high resolution
- Five major connectivity options
- Additional software application modes and added weighing units complement the balance and set a new standard in portable weighing technology
- Available with or without draftshield
- Stackable design
- Leveling bubble with adjustable feet
- Kensington security slot cable sold separately
- Calibration mass included(all models up to 620g)
- 12 different weighing units:g,mg,kg,lb:oz,N,ct,Grn, dwt, ozt, custom unit
- Powered by AC adapter (included) or 4 AA batteries (not included)
- Integrated weigh-below hook
- Transportation/storage lock

### APPLICATIONS

Weighing, density determination, molar mass



Cat. No.	Model	Capacity (Metric)	Readability	Price
S14505 <sup>†</sup>	STX123	120g	0.001g	746.00/Ea
S14506 <sup>†</sup>	STX223	220g	0.001g	834.00/Ea
S14507	STX222	220g	0.01g	546.00/Ea
S14508	STX422	420g	0.01g	765.00/Ea
S14512	STX421	420g	0.1g	310.00/Ea
S14513	STX621	620g	0.1g	459.00/Ea
S14509	STX622	620g	0.01g	896.00/Ea
S14510	STX1202	1200g	0.01g	1023.00/Ea
S14511	STX2202	2200g	0.01g	1150.00/Ea
S14514	STX2201	2200g	0.1g	579.00/Ea
S14516	STX8200	8200g	1g	480.00/Ea

<sup>†</sup>With draft shield

## OHAUS™ Adventurer™ Analytical and Precision Balances

Stable, accurate and fast operating balance for optimal weighing results in routine laboratory work.

- Wide viewing angle color touchscreen (WQVGA Graphic LCD) provides quick access to all applications
- Six mechanical keys to perform repetitive operations such as tare, zero, calibration and print
- Allows user to perform nine application modes and features that eliminate need for manual calculations
- Two piece, top-mounted draftshield doors open wide on both sides; providing ample room for sample placement and reducing footprint of draftshield
- Dual USB ports with GLP/GMP tracking capabilities assist in monitoring and reporting of data
- Easily accessible front USB port for loading data from balance to flash drive; second USB located at rear of balance connects balance to PC
- Real-time clock function to keep accurate time even during power loss
- GLP data capability for recording sample name, project names and balance ID to help meet traceability and compliance requirements
- Comes with minimum sample weight indication
- Delivers stable and reliable weighing results for routine weighing tasks
- Fast stabilization time improves productivity in the laboratory
- All models feature external calibration
- Tare range: To capacity by subtraction
- Power requirements: AC Adapter Input: 100-240 VAC 50-60 Hz 0.3A; AC Adapter Output: 12 VDC 0.84A
- Communication: RS232, USB Device, USB Host
- Temperature range: 10° to 30°C (50° to 86°F)
- Humidity range: Maximum relative humidity 80% for temperatures up to 30°C (86°F)
- Display size: 109mm (4.3 in.) (diagonal)
- For 100/240VAC 50/60Hz, 0.3A

### Weighing Units:

- Gram
- Milligram
- Carat
- Ounce
- Troy ounce
- Pound
- Pennyweight
- Grain
- Newton
- Momme
- Mesghal
- Hong Kong Tael
- Singapore Tael
- Taiwan Tael
- Tical
- Tola
- Baht
- One Custom Unit

### INCLUDES:

- RS232 interface
- Integral weigh below hook
- Full housing in-use cover
- Removable stainless-steel pan
- Die-cast metal bottom housing
- Security bracket
- Illuminated up-front level indicator
- Four adjustable feet
- Software lockout menus
- Stability indicator
- Software overload/underload indicators
- User selectable environmental settings
- Audible indicator
- User selectable brightness settings
- Auto dim
- Touchscreen calibration
- Auto tare
- User selectable operating language (nine)
- AC adapter



### Application Modes:

- Weighing
- Percent Weighing
- Parts Counting
- Dynamic/Animal Weighing
- Density Determination
- Check Weighing
- Display Hold
- Totalization
- Formulation

### APPLICATIONS:

Laboratory, pharmacy, industrial installation and classroom

### COMPLIANCE:

Metrology: OIML R76, EN 45501 (Class I, nmax 320000; Class II, nmax 52000)

Product Safety: EN 61010-1, IEC 61010-1

Electromagnetic Compatibility: IEC 61326-1, EN 61326-1 (emissions Class B, immunity industrial requirements)

Cat. No.	Capacity (Metric)	Readability	Test Specificity	Price
S05015	120g	0.1mg	100g, OIML E2 or ASTM Class 1	2922.00/Ea
S05016	220g	0.1mg	200g, OIML E2 or ASTM Class 1	3234.00/Ea
S05017	220g	1mg	200g, OIML F1 or ASTM Class 2	1666.00/Ea
S05018	520g	1mg	500g, OIML F1 or ASTM Class 2	2255.00/Ea
S05020	1520g	0.01g	1500g, OIML F1 or ASTM Class 2	1615.00/Ea
S05021	2200g	0.01g	2000g, OIML F2 or ASTM Class 2	1825.00/Ea
S05022	4200g	0.01g	4000g, OIML F1 or ASTM Class 2	2153.00/Ea
S05023	4200g	0.1g	4000g, OIML F1 or ASTM Class 2	1277.00/Ea
S05024	8200g	0.1g	5000g, OIML F1 or ASTM Class 2	1492.00/Ea

# Ohaus™ Adventurer™ Precision Balances, External Calibration

Strikes the ideal balance between inventive features and functional, uncomplicated weighing capabilities. Ohaus Adventurer Precision Balances with external calibration deliver stable and reliable weighing results for routine weighing tasks. With fast stabilization times, these balances improve productivity in the laboratory.

- External Calibration: traditional calibration in which the operator manually calibrates the balance with their choice of calibration weight value to ensure accuracy available on every model
- Color touchscreen offers easy and fast operation of Adventurer applications
- Operate and access nine application modes and abundant features that eliminate the need to do several manual calculations through the modern color touchscreen
- Operators can wear laboratory gloves while utilizing the touchscreen, eliminating the inconvenience and hazards associated with constantly putting on and removing gloves
- In addition to the touchscreen, Adventurer also has six mechanical keys that provide tactile feedback and allow the operator to perform repetitive operations such as tare, zero, calibration, and print
- Application modes: weighing, dynamic weighing, display hold, parts counting, density determination, totalization, percent weighing, check weighing, formulation
- Real-time clock function keeps accurate time even during power loss and the GLP data capability has the ability to record Sample name, Project names and Balance IDs to help meet traceability and compliance requirements
- Cloning feature allows you to save user and application settings to a USB flash drive which can be easily used to configure additional Adventurer balances

- When using the minimum weight feature, the display clearly indicates that your current sample weight is below your defined minimum limit; simply increase your sample weight to assure that your results are up to your standards
- Space-saving draftshield designed to improve user experience and accessibility
- Additional features include: RS232 interface, integral weigh below hook, full housing in-use cover, removable stainless steel pan, die-cast metal bottom housing, security bracket, illuminated up-front level indicator, four adjustable feet, software lockout menus, stability indicator, software overload/underload indicators, user selectable environmental settings, audible indicator, user selectable brightness settings, auto dim, touchscreen calibration, auto tare, user selectable operating language (nine)



- The connectivity options help meet traceability requirements in traditional installations

### COMPLIANCE:

Product Safety: CSA C22.2 No. 61010-1, UL 61010-1, IEC 61010-1. Electromagnetic Compatibility: FCC Part 15 Class A, ICES-001 Class A, IEC 61326-1 (emissions Class B, immunity Industrial requirements)

### Dual USB Ports

- A front USB host port is easily accessible and makes it simple to load data from the balance on to a flash drive without having to reach around to the back or move the balance
- A second USB device is located at the rear of the balance that can be used to connect the balance to a PC

Specifications	
<b>Material</b>	Metal base, ABS top housing, stainless steel pan,
<b>Electrical Requirements</b>	AC Adapter Input: 100-240V 0.3A 50-60Hz; AC Adapter
<b>Connection Type</b>	RS-232, USB device, USB host
<b>Display Type</b>	Touch Screen
<b>Certifications/Compliance</b>	Product Safety: CSA C22.2 No. 61010-1, UL 61010-1,

Cat. No.	Model	Capacity	Readability	Stabilization Time	Price
<b>S28590</b>	AX423/E	420 g	1 mg	≤2 sec.	1999.00/Ea
<b>S28623</b>	AX422/E	420 g	0.01 g	≤1.5 sec.	1107.00/Ea
<b>S28621</b>	AX822/E	820 g	0.01 g	≤1.5 sec.	1297.00/Ea
<b>S28622</b>	AX2201/E	2.2 kg	0.1 g	≤1.5 sec.	1133.00/Ea

# OHAUS™ Pioneer™ PX Balances

Pioneer PX Balances offers high-accuracy and repeatability for applications in laboratory, industrial and education settings. Feature a second line display for additional information and connectivity for easy communication

Cat. No.	Capacity	Readability	Price	Cat. No.	Capacity	Readability	Price
<b>With External Calibration</b>				<b>With Internal Calibration</b>			
<b>S72430</b>	82 g	0.0001 g	1897.00/Ea	<b>S72431</b>	82 g	0.0001 g	2163.00/Ea
<b>S72432</b>	120 g	0.0001 g	2184.00/Ea	<b>S72433</b>	120 g	0.0001 g	2471.00/Ea
<b>S72436</b>	160 g	0.001 g	1097.00/Ea	<b>S72437</b>	160 g	0.001 g	1338.00/Ea
<b>S72434</b>	220 g	0.0001 g	2430.00/Ea	<b>S72435</b>	220 g	0.0001 g	2732.00/Ea
<b>S72438</b>	320 g	0.001 g	1287.00/Ea	<b>S72445</b>	220 g	0.01 g	1384.00/Ea
<b>S72440</b>	520 g	0.001 g	1630.00/Ea	<b>S72439</b>	320 g	0.001 g	1517.00/Ea
<b>S72442</b>	1600 g	0.01 g	1056.00/Ea	<b>S72449</b>	420 g	0.01 g	1840.00/Ea
<b>S72444</b>	2200 g	0.01 g	1159.00/Ea	<b>S72441</b>	520 g	0.001 g	1876.00/Ea
<b>S72450</b>	2200 g	0.1 g	984.00/Ea	<b>S72443</b>	1600 g	0.01 g	1282.00/Ea
<b>S72446</b>	3200 g	0.01 g	1410.00/Ea	<b>S72451</b>	2200 g	0.1 g	1189.00/Ea
<b>S72452</b>	4200 g	0.1 g	1143.00/Ea	<b>S72454</b>	4200 g	0.1 g	1348.00/Ea
				<b>S72447</b>	3200 g	0.01 g	1646.00/Ea

- 2 line display; Backlit LCD
- Durable construction
- Communication ports: RS232,USB
- Electrical requirements: Power input: 100-240V ~ 200mA 50-60Hz 12-18VA; Power output: 12 VDC 0.5A
- Length: 321mm
- Linearity: ±2 divisions
- Repeatability: ±1 divisions



**INCLUDES:** AC power adapter **WARRANTY:** 2 year

### CERTIFICATIONS/COMPLIANCE:

Electromagnetic Compatibility: IEC/EN 61326-1 Class B, Basic Environments; FCC Part 15 Class A; Canada ICES-003 Class A, CSA

## Ohaus™ Navigator™ NV Portable Balances

With dual multi-functional touchless infrared sensors allowing hands-free operation.

- With EC type approved models
- Ultra-fast response time
- Overload protection for wide variety of weighing applications
- ABS plastic construction with stainless-steel pan
- LCD with backlight display
- Come with front level indicator (lit during power up), non-slip adjustable feet, stability indicator, external menu lock switch, shipping transportation lock, integrated security loop, and superior overload protection
- Six full segment LCD white auto backlight with multiple icons and indicators
- One second stabilization time

### Applications

Weighing (14 units), Percentage weighing, Checkweighing, Parts counting, Accumulation/Totalization, and Display hold

### ORDERING INFORMATION:

Units feature mains or battery operation with auto shut-off. Easy to install USB, RS232, and Ethernet interface options.

### CERTIFICATIONS:

UL listed



Cat. No.	Model	Capacity	Readability	Stabilization Time	Price
S04791	NV212	210 g	0.01 g	1 sec.	398.00/Ea
S04792	NV511	510 g	0.1 g	1 sec.	273.00/Ea
S04793	NV1101	1.1 kg	0.1 g	1 sec.	338.00/Ea
S04794	NV2101	2.1 kg	0.1 g	1 sec.	436.00/Ea

## Ohaus™ Valor™ 3000 Xtreme Portable Scales

Compact portioning scales offer high precision and extreme durability for the harshest environments.

High-precision NSF-certified and listed scale with USDA-accepted housing features the accuracy of the Scout™ Pro with precision up to 20,000g. User-selectable filtering, auto-zero tracking and stability settings enable use in drafty, unstable environments.

- Full T304 stainless-steel housing, removable stainless-steel weighing pan
- Corrosion-resistant keyboard, great for areas where harsh chemicals are used
- SmarText™ user interface utilizes bright, backlit LCD plus simple text prompts
- Overload protection rated at 10X capacity
- Percentage weighing mode can automatically compute baker's percentages
- Specific Gravity Mode offers rapid, easy determination without need for manual calculations — great for checking the density and aeration of mixes
- Durable, easy to clean
- Nonslip, adjustable rubber feet
- Waterproof models (S93813 and S93814) feature full NEMA 4X/IP65 protection and up-front level bubble

### Applications

Laboratory, industrial, food service, baking

### INCLUDES:

AC wall adapter, load cell lock

### WARRANTY:

One year

### COMPLIANCE:

EMC Approvals: FCC Class B, Industry Canada, CE.

### CERTIFICATIONS:

NSF, USDA, UL and CE.



Specifications	
Automation Interface	3 Mechanical switch
Battery Type	4 C
Calibration	Digital external span calibration
Certifications/Compliance	ISO 9001:2008, NSF, USDA/AMS, CE, AS/NZS4251.1 Emission/AS/NZS4252.1 Immunity, FCC Class B Part 15 operation, Industry Canada Class A, cULus, NTEP CoC No. 08-008
Dimensions (L x W x H)	8.5 x 7.3 x 3 in. (21.59 x 185 x 7.7cm)
Type	Valor™ 3000 Xtreme portable scale
Display Type	LCD
Electrical Requirements	100/120V 50/60Hz
Format	Gram, kilogram, ounce, pound, fluid ounce
Hertz	50/60Hz
Material	Stainless Steel
Stabilization Time	<3 sec.
Temperature Range (English)	32 to 104°F
Temperature Range (Metric)	0 to 40°C
Voltage	100/120V

Cat. No.	Capacity	Model	Readability	Weight (English)	Price
S93808	200 g	V31XH202/EMD	0.01g	2.6 lb.	649.00/Ea
S93814	6000 g	V31XW6/EMD	1g	3.1 lb.	554.00/Ea



## Ohaus™ Compact Scales

Rugged construction, easy operation and great performance make these scales a truly remarkable value. Size and styling make these scales ideal for field and lab activities.

- Measure in grams or pounds/ounces from 200 to 5000g
- Large weighing surface with full-capacity tare
- Removable stainless-steel pan
- Easy-to-read LCD display
- Weighing units: g, lb.:oz. (S63462 does not have lb.:oz.)
- Zero range: to capacity by subtraction
- Stabilization time: three seconds
- Readabilities from 0.1 to 1g
- Calibration: digital calibration from keypad
- Auto shutoff: five minutes with no activity (battery operation only)
- Removable stainless-steel pan
- Net weight: 1.0 lb. (0.47kg)



**INCLUDES:**

AC adapter, US postal chart, Stainless Steel pan cover, three AA batteries

**WARRANTY:** One year

Specifications	
Battery Type	3 AA Alkaline
Calibration	User calibration from keypad
Certifications/Compliance	ISO 9001:2008, CE, FCC Class B Part 15
Includes	AC adapter, US postal chart, Stainless Steel pan cover, three AA batteries
Type	Compact Scale
Format	Gram, ounce, pound, Newton
Height (English)	1.5 in.
Height (Metric)	3.8cm
Length (English)	8 in.
Length (English) Pan	5.75 in.
Length (Metric)	14cm
Length (Metric) Pan	14.5cm
Material	ABS Plastic, Stainless Steel
Stabilization Time	3 sec.
Temperature Range (English)	65 to 77°F
Temperature Range (Metric)	18 to 25°C
Voltage	120V
Weight (English)	0.91 lb.

Cat. No.	Capacity	Model	Readability	Repeatability	Price
S63462	200 g	CS-200	0.1g	±0.1g	159.00/Ea
S402421	4.4 lb., 2 kg	CS2000	1g	±1g	191.00/Ea
S63464	11 lb., 5 kg	CS-5000	2g	±1g	188.00/Ea

## Fisher Science Education™ Compact Balances

Economical, dependable and portable.

Rugged housing design provides best overall overload protection and durability in its class. Uniquely designed for a wide variety of applications, these balances feature easy operation, long battery life and great performance.

- Sleek, low-profile design
- Large, high-contrast LCD
- Energy-saving auto shut-off feature
- Two-button keypad
- Stackable, for storage with molded stack ring
- Load cell lock
- Three AA batteries (included) or optional AC adapter
- Over- and underload indicators
- Digital calibration from keypad
- Low-battery indicator



**WARRANTY:** One year

Cat. No.	Model	Capacity	Readability	Stabilization Time	Price
S94793A	CLF201	200 g	0.1 g	3 sec.	119.00/Ea
S94793B	CLF2000	2 kg (72 oz.)	1 g	3 sec.	119.00/Ea
S94793C	CLF5000	5 kg, 11.02 lb.	2 g	3 sec.	136.00/Ea

## Ohaus™ Hand-Held Scales

Convenient, compact and portable weighing capability in the palm of your hand. Ohaus Hand-Held Scales are small scales with sleek styling and convenient size.

Ideal to take anywhere — throw one in a briefcase or drop one in a backpack.

- 3 x 3 in. (7.6 x 7.6cm) weighing surface
- Protective snap-on cover
- Large LCD display
- Energy-saving auto shutoff
- Auto calibration from keypad



**WARRANTY:** One year

Specifications	
Battery Type	2 AAA
Calibration	User calibration/auto calibration from keypad
Certifications/Compliance	ISO 9001:2008
Depth (English) Pan	3.26 in.
Depth (Metric) Pan	8.3cm
Dimensions (L x W x H)	5.35 x 3.25 x 0.8 in. (13.6 x 8.3 x 2cm)
Includes	Protective ABS snap-on cover
Type	Hand held series portable balance
Display Type	LCD
Format	Gram, ounce, troy ounce, pennyweight
Length (English) Pan	3.25 in.
Length (Metric) Pan	8.25cm
Material	ABS Plastic
Stabilization Time	3 sec.
Temperature Range (English)	64 to 77°F
Temperature Range (Metric)	18 to 25°C
Weight (English)	0.34 lb.

Cat. No.	Model	Linearity	Readability	Price
S65222	HH320	±0.2g	0.1g	265.00/Ea
S65221	HH120D	±0.1, 0.2g	0.1, 0.2g	179.00/Ea
S67498	HH120	±0.1g	0.1g	213.00/Ea

## Ohaus™ Pocket Scales

Great performance in a unique yet functional design. Combination pan and cover slides back for weighing and forward to cover the display and keys for storage or transport. Two mechanical buttons and a crisp LCD enable simple, quick operation.



- Stability indicator
- Low-battery indicator
- Overload and underload indicators
- Smaller size than most pocket scales
- External digital calibration
- Sliding pan and cover protects display and keys; prevents load cell damage in transport
- Fast and easy battery replacement with "pop-out" design

- Auto shutoff
- High-contrast LCD

**INCLUDES:**  
Two lithium batteries, mounting bracket

Specifications	
Battery Type	2 Lithium
Calibration	Digital external calibration
Certifications/Compliance	ISO 9001:2008
Depth (English)	3.66 in.
Depth (Metric)	9.3cm
Includes	Two lithium batteries, mounting bracket
Type	FSE Pocket Scale
Display Type	LCD
Format	Gram, ounce
Height (English)	0.74 in.
Height (Metric)	1.9cm
Linearity	±0.1g
Material	ABS Plastic, Carbon Steel
Readability	0.1g
Repeatability	±0.1g
Stabilization Time	<2 sec.
Temperature Range (English)	65 to 77°F
Temperature Range (Metric)	18 to 25°C
Weight (English)	0.16 lb.

Cat. No.	Model	Capacity	Price
S94794A	PS121	0.26 lb., 120 g	68.00/Ea
S94794B	PS251	0.55 lb., 250 g	89.00/Ea

## Ohaus™ Gold Series Pocket Scales

Perfect for weighing jewelry, coins and small parts. Ohaus Gold Series Pocket Scales have large backlit LCD display and external calibration.



- Full-capacity tare range
- Automatic shutoff
- Stability indicator
- Low battery indicator
- Rugged plastic flip-top case
- Net weight: 2.7 oz.
- Dimensions: 2.75L x 3.875W x 0.875 in.H (7.0 x 9.8 x 2.2cm)
- Weighing platform: 2.50D x 2.63 in.W (6.4 x 6.7cm)
- Two AAA batteries included

**COMPLIANCE:**  
AS/NZS4251.1 Emission,  
AS/NZS4252.1 Immunity.

**WARRANTY:** One year

**CERTIFICATIONS:** CE

Specifications	
Battery Type	2 AAA
Certifications/Compliance	ISO 9001:2008, AS/NZS4251.1, AS/NZS4252.1, CE
Dimensions (L x W x H)	2.9 x 4.3 x 0.79 in. (7.5 x 11 x 2cm)
Includes	Plastic
Type	Gold series pocket scale
Display Type	LCD
Format	Gram, ounce, carat, Grain
Linearity	±3g
Material	ABS Plastic, Stainless Steel
Repeatability	±3g
Temperature Range (English)	50 to 77°F
Temperature Range (Metric)	10 to 25°C
Weight (English)	0.16 lb.
Weight (Metric)	0.076kg

Cat. No.	Model	Capacity	Readability	Price
S93807	YA102	100 g	0.01g	106.00/Ea
S93806	YA302	0.6 lb.	0.05g	91.00/Ea
S93805	YA501	500 g	0.1g	65.00/Ea

## Ohaus™ Cent-O-Gram™ and Dial-O-Gram™ Balances

Support centigram accuracy and encourage student precision. Ohaus Cent-O-Gram and Dial-O-Gram Balance comes with three-point base, special floating bearing principle, and beam design which eliminates need for level adjustment.



- Quick zeroing by means of a zero-adjust knob at beam end
- Built-in specific gravity platform recessed in the base
- Stainless-steel weighing pans and bearing covers prevent rust and corrosion
- Precision-ground knife edges and self-aligning agate bearings provide maximum sensitivity and reproducibility
- Notched beams provide positive positioning of poise
- Magnetic damping slows oscillation

**ORDERING INFORMATION:**  
The Dial-O-Gram (S40027) model replaces the two front beams with a vernier dial for faster reading results.

**WARRANTY:**  
Five years

Specifications	
Capacity	0.6 lb., 300 g
Depth (English)	7 in.
Depth (Metric)	17.78cm
Diameter (English) Outer Pan	3.5 in.

Specifications	
Diameter (Metric) Outer Pan	9cm
Height (English)	9 in.
Height (Metric)	22.86cm
Material	Stainless Steel
Warranty	5 Years
Width (English)	14 in.
Width (Metric)	35.56cm

Cat. No.	Calibration	Depth (English) Pan	Depth (Metric) Pan	Model	Price
S40029	1 x 0.01g (front beam), 10 x 1 (second beam), 100	0.27 in.	0.7cm	311-00	321.00/Ea
S40027	100 x 10g (front, second and third beam), 10 x 0.0	0.5 in.	1.27cm	310-00	389.00/Ea

## Ohaus™ Triple Beam Balances

Accurate, rugged and dependable. Ohaus Triple Beam Balances have stainless-steel weighing pans and bearing covers which prevent rust and corrosion.

- Precision-cast poises and deep notches in beams for accurate values every time
- Precision-ground knife edges and self-aligning agate bearings for maximum sensitivity and reproducibility
- Accurate with quick response time
- Magnetic damping minimizes oscillation
- Heavy zinc base won't tip easily like cast aluminum

### Specifications

- Capacity: 610g (2610g with attachment weights)
- Readability: 0.1g
- Front Beam: 10 × 0.1g
- Middle Beam: 500 × 100g
- Rear Beam: 100 × 10g
- Vernier Dial (Dial-O-Gram™ Model only): 10 × 0.1g
- Pan size: 6 in. dia. (21.2cm)
- Dimensions: 18L × 12W × 9 in.H (45.7 × 30.5 × 22.3cm)

### Dial-O-Gram model includes advanced features

- Direct-reading vernier dial for faster weighing results
- Tare beam allows containers up to 225g to be balanced out
- Add rod and clamp accessory (S40022B) to perform specific gravity determinations

### Specific Gravity Rod and Clamp

- Suspends balance above base of table to measure specific gravity.

### Poly Scoop and Counterweight

- Ideal for retaining all of the object being weighed
- Counterweight returns balance to zero when nothing but the scoop is on the platform
- Stainless-steel scoop and counterweight feature heavy-duty construction for long wear



**Note:** S40028 features a plastic container

**WARRANTY:** Five years

Specifications	
Capacity	1.34 lb., 0.61 kg
Depth (English)	9 in.
Depth (Metric)	22.86cm
Diameter (English) Outer Pan	6 in.
Diameter (Metric) Outer Pan	15.2cm
Height (English)	12 in.
Height (Metric)	30.48cm
Material	Stainless Steel
Warranty	5 Years
Weight (English)	7.05 lb.
Weight (Metric)	3.2kg
Width (English)	18 in.
Width (Metric)	45.72cm

Cat. No.	Model	Type	Calibration	Price
S40020	750-S0	Triple beam mechanical balance	10 x 0.1g (front beam), 500 x 100g (middle beam),	149.00/Ea
S40021	710-00	Triple beam mechanical balance	10 x 0.1g (front beam), 500 x 100g (middle beam),	268.00/Ea
S40014	760-00	Triple beam mechanical balance	10 x 0.1g (front beam), 500 x 100g (middle beam),	277.00/Ea
S40028	730-00	Triple Beam Mechanical Balance, with plastic conta	10 x 0.1g (front beam), 500 x 100g (middle beam),	396.00/Ea

## Fisher Science Education™ Triple-Beam Balance

Accurate, durable and easy to use. Ohaus Triple-Beam Balances are designed to demonstrate mass measurement concepts in the classroom and for everyday weighing.

- Stainless-steel pan
- Security loop for lock-down capabilities
- Zero adjust knob
- Magnetic damping
- Designed to stay accurate with everyday use
- Capacity: 21.5 oz. (610g)
- Readability: 0.1g

### WARRANTY:

One year



Cat. No.	Description	Price
S97280	Triple-Beam Balance	126.00/Ea

## Ohaus™ Triple Beam Mechanical Balance

Accuracy and convenience of a toploading balance. Ohaus Triple Beam Mechanical Balance gives students hands-on experience through manipulation of the poises and attachment weights, as well as visualization of mass measurement principles.



- Rugged construction
- Integrated security bracket (cable sold separately)
- Three notched and tiered beams provide ease in reading
- Positive poise positioning ensures repeatable results
- Spring-loaded zero-adjust compensator
- Magnetic damping minimizes oscillation and speeds weighing
- Stainless-steel platform for easy cleaning
- Capacity: 21.5 oz. (610g); with accessory mass set (sold separately), 2610g
- Readability: 0.1g
- Front beam calibration: 10 × 0.1g
- Middle beam calibration: 500 × 100g
- Rear beam calibration: 100 × 10g
- Platform: 6 in. dia. (15.2cm)

**ORDERING INFORMATION:**

Optional accessories include metric attachment mass set (two 1000g and one 500g), security cable

**INCLUDES:**

Optional accessories include metric attachment mass set (two 1000g and one 500g), security cable

**WARRANTY:**

Three years

Cat. No.	Description	Price
S93975	Triple Beam Mechanical Balance	144.00/Ea

## Ohaus™ Triple Beam Pro Balance

Accurate, dependable and stylish with superior quality and durability. Ohaus Triple Beam Pro Balance is an ideal learning tool to help visualize mass measurement principles and to emphasize a hands-on learning approach.



- Unique, easy-grip carrying handle is ergonomically designed and perfectly balanced to allow for effortless transportation
- Security features help prevent theft — security loop and Kensington-type lock (cables sold separately)
- Storage compartment stores included attachment weight set when not in use
- Built-in transportation/storage lock minimizes wear and reduces the possibility of bending the damper vane
- Use rod and clamp assembly for below-balance weighing necessary for specific-gravity determinations
- Two notched and tiered beams provide ease in reading
- Positive poise positioning ensures repeatable results
- Spring-loaded, zero-adjust compensator
- Flip-style storage lock to protect from oscillation
- Magnetic damping to minimize oscillation and speed up weighing
- Stainless-steel plate platform: 5.8 × 5.8 in. (7.1 × 7.1cm)
- Capacity: 92.1 oz.
- Readability: 0.1g

**INCLUDES:**

- Attachment weight set
- Rod and clamp assembly

**WARRANTY:**

10 years, limited

Cat. No.	Description	Price
S97281	Triple Beam Pro Balance	213.00/Ea

## Ohaus™ School Balance

Ideal teaching tool to introduce students to precision mass measurement. Ohaus School Balances measure small items such as paper clips, marbles and coins, as well as heavier objects such as books.

- Dual pointers allow students to view results from either side of the balance
- Interchangeable square pans remove for easy pouring, cleaning and storing
- Pivoting beam provides accuracy to 0.5g
- Capacity: 70.5 oz. (2000g)
- Includes 18-piece plastic weight set
- Pan depth: 1.25 in. (3.2cm)

**INCLUDES:**

8 piece metal mass set, bowl type pans

**WARRANTY:**

One year



Cat. No.	Description	Price
S63485	School Balance	61.00/Ea



## Troemner™ Stainless-Steel Weight Sets

Economical Stainless Steel Class 7 Weight Set with No Certificate



Weights are adjusted to tolerances specified by ANSI™/ASTM™ Class 7. Each set comes complete with a plastic storage container.

- Fractional masses of 200mg and over are made of stainless steel
- Fractional masses below 200mg are made of aluminum
- Sets with fractional masses include forceps

**CERTIFICATIONS:** Statement of accuracy, ISO9001

Cat. No.	Material	Quantity	Price
S40214A	Stainless Steel	12/Set	102.00/Ea
S40244A	Stainless Steel	8/Set	25.25/Ea
S40203A	Stainless Steel	21/Set	62.75/Ea

## Ohaus™ Harvard Junior™ Mechanical Balance

Unique design combines colorful, plastic two-pan balance with the durability and accuracy of the more expensive Harvard Trip Balances. Ohaus Harvard Junior Mechanical Balance incorporates precision-engineered metal beam and zero-adjust compensator.

- Capacity: 70.5 oz. (2000g)
- Readability: 0.5g
- Interchangeable pans enable a broader range of objects to be weighed
- Stackable platforms maximize storage space
- Built-in transportation/storage lock protects the balance's longevity by eliminating oscillation
- Spring-loaded zero-adjust compensator
- Manual damping device minimizes oscillation and speeds up weighing
- Built-in carrying handle for easy transport around a room or from class to class



**INCLUDES:**

- Eight-piece metal mass set (2 × 100g, 2 × 50g, 2 × 25g, 2 × 10g)
- Bowl-type pans for use in weighing round objects
- Teacher-developed, standards-based activity guide with background information and assessment guide with reproducibles

**WARRANTY:**  
Three years

Cat. No.	Description	Price
S97291	Junior Mechanical Balance	123.00/Ea

## Ohaus™ Harvard Trip Balances

Ideal for comparative weighing programs and centrifuge tube balancing. Ohaus Harvard Trip Balances employ a two-pan design based on the classic Roberval balance principle. They are commonly used to determine the difference in mass between two objects, rather than their absolute value.

**Standard features include**

- Built-in sliding masses
- Magnetic damping
- Stainless-steel weighing platform



**Specifications**

- Pan size: 6 in. dia. (15.2cm)
- Readability: 0.1g
- Capacity: 70.54 oz. (2000g)
- Top beam: 10 × 0.1g
- Bottom beam (excluding Single Beam model): 200 × 10g

**ORDERING INFORMATION:**

Weighing up to 2000g can be achieved by using a calibration mass set (S40214A, S40215A).

**WARRANTY:**

Five years

**Specifications**

Capacity	4.4 lb., 2 kg
Depth (English)	7 in.
Depth (English) Pan	5.9 in.
Depth (Metric)	22.8cm
Depth (Metric) Pan	15cm
Diameter (English) Outer Pan	6 in.
Diameter (Metric) Outer Pan	15.2cm
Height (English)	9.5 in.
Height (Metric)	24.1cm
Material	Stainless Steel
Warranty	5 Years
Width (English)	14 in.
Width (Metric)	35.5cm

Cat. No.	Model	Calibration	Type	Price
S40040	1450-SD	10 × 0.1g (top beam)	Harvard single beam balance	360.00/Ea
S40030	1560-SD	10 × 0.1g (top beam), 200 × 10g (bottom beam)	Harvard double beam balance	404.00/Ea
S40035	1550-SD	10 × 0.1g (top beam), 200 × 10g (bottom beam)	Harvard double beam balance	386.00/Ea



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## Ohaus™ Pull-Type Spring Scales

Designed to stand up to heavy student use and withstand sudden load releases without breaking. Mettler Toledo Pull Type Spring Scales are made from rugged shatterproof plastic and metal. They are color-coded for easy identification of capacity.



- Simple zero adjustment
- Easy-to-read black graduations on a sturdy frosted-aluminum background
- 4.44cm D x 33cm H

Cat. No.	Capacity	Price
S40137	2kg x 50g, 20 x 0.5(N)	21.00/Ea
S40120	250 x 10g, 9 x 0.25 oz.	22.00/Ea
S40123A	500 x 20g, 18 x 0.5 oz.	22.00/Ea
S32121	2000 x 50g, 72 x 2 oz.	22.00/Ea
S40117	250 x 10g, 2.5 x 0.1(N)	21.00/Ea
S40118	500 x 20g, 5 x 0.2(N)	21.00/Ea
S32120	1000 X 25g, 10 x .25(N)	21.00/Ea
S40123C	5kg x 100 g, 50 x 1(N)	21.00/Ea
S401181	100 x 1g, 3.52 x 0.03 oz.	24.00/Ea
S401182	200 x 2g, 7.054 x 0.07 oz.	24.00/Ea
S401183	500 x 5g, 17.63 x 0.17 oz.	24.00/Ea
S401184	1000 x 10g, 35.27 x 0.35 oz.	24.00/Ea
S401185	2kg x 50g, 20 x 0.5(N)	24.00/Ea
S63354	1.12 x 0.04 lb., 5 x 0.2(N)	25.00/Ea

## Ohaus™ Dial Type Spring Scales

Designed to stand up to heavy student use and withstand sudden load releases without breaking.

- Capacity 50N x 2N (11 lbs)
- Rugged shatterproof plastic and metal construction
- Simple zero adjustment
- Easy-to-read black graduations on a sturdy frosted-aluminum background
- Color-coded styles for easy identification of capacity



### ORDERING INFORMATION:

Dial- and pull-type scales are available as well as 8 in. (20.3cm) class demonstration size scales.

Cat. No.	Description	Price
S40140A	Dial-Type Spring Scale	75.00/Ea

## Eisco Dual Scale Spring Scales

Metric and Newton ranges.

- Polystyrene bodies with large, easily read flat scales
- Provided with zero adjustable device that has an anodized metal scale

Cat. No.	Model	Capacity	Price
S04393A	PH0024A	100 g	5.65/Ea
S04393B	PH0024B	250 g	5.65/Ea
S04393C	PH0024C	500 g	5.65/Ea
S04393D	PH0024D	1kg	5.65/Ea
S04393E	PH0024E	2 kg	5.65/Ea

## United Scientific™ Aluminum Spring Scales

Constructed of anodized aluminum, with steel hooks

- Constructed of anodized aluminum
- With steel hooks
- Durable
- Available in seven color-coded sizes



Cat. No.	Capacity	Graduation (English)	Color	Price
S04533	1N, 100g	0.02N	Black	6.35/Ea
S04533B	5N, 500g	0.1N	Green	6.35/Ea
S04533C	10N, 1000g	0.2N	Brown	6.35/Ea
S04533D	20N, 2000g	0.5N	Red	6.35/Ea
S04533F	50N, 5000g	1N	Gold	7.50/Ea

## United Scientific™ Push Pull Scales

For measuring weights, masses and forces.

- Spring scale can be used to measure forces using push or pull functions
- To weigh suspended object from large hook
- Includes zero adjustment screw and metal suspension ring
- Available in six color-coded sizes



Cat. No.	Color	Graduation (English)	Product Type	Price
S04532B	Brown	0.2N	Push Pull Scale	9.90/Ea

### INCLUDES

Zero adjustable device with flat easy-to-read anodized metal scale



Balance Accessories

### Ohaus™ Security Device for Pioneer™ and Explorer™ Series Balances

For use with Pioneer and Explorer series balances.

Includes cable and lock.



Cat. No.	Description	Price
S40046C	Security Device	80.00/Ea

### Troemner™ Slotted Stainless-Steel Weight Hanger

For use with slotted stainless-steel sets and individual weights.

- Weight hanger is calibrated to 50g



Cat. No.	Description	Price
S97603A	Weight Hanger	19.50/Ea

### Troemner™ Hooked Stainless-Steel Weight Sets and Individual Weights

Weights can be hooked together at top and bottom.

The design of the hook weight allows the bottom hook to be recessed in the bottom so the hook weights can be set on a flat surface.

- Adjusted to tolerances specified by ANSI™/ASTM™ Class 7
- Density: 7.85g/cm<sup>3</sup> at 20°C
- Weight sets are supplied in an open plastic storage case



Cat. No.	Description	Weight (Metric)	Price
S40302A	Metric Hook Weight	10g	17.25/Ea
S40304A	Metric Hook Weight	50g	18.00/Ea
S40305A	Metric Hook Weight	100g	19.25/Ea
S40306A	Metric Hook Weight	200g	15.25/Ea
S40307A	Metric Hook Weight	500g	35.75/Ea
S40300A	Metric Hook Weight	10g to 1kg	149.00/Ea
S40210A	Newton Hook Weight Set	10N, 5N, 1N, 0.5N, 0.1N, 2N, 0.2N	158.00/Ea

### Troemner™ Slotted Stainless Steel Weight Sets

Designed to stack on weight hanger.



- Adjusted to tolerance specified by ANSI™/ASTM™ Class 7
- Weights 500g through 10g are 7.85 g/cm<sup>3</sup> at 20°C
- Weights 5g through 1g are 2.7 g/cm<sup>3</sup> at 20
- Weights 500g through 10g are 303 Stainless Steel
- Weights 5g through 1g are 3003-H14 Aluminum°C

**ORDERING INFORMATION:**

Weight hanger available separately (Cat. No. S97603A).

**INCLUDES:**

Weight rack with carrying handle to stack and hang slotted weights

Cat. No.	Mass	Quantity	Price
S40256A	500g, (2) 200g, 100g, 50g, (2) 20g, 10g	8/Set	121.00/Ea
S40381A	500g, (2) 200g, 100g, 50g, (2) 20g, 10g, 5g, (2) 2g, 1g	12/Set	165.00/Ea

### United Scientific™ Hooked Weight Set

Perform experiments and calibrations with an accurate set of weights. The Hooked Weight Set features individually calibrated weights made of high quality stainless steel.



- Individually calibrated weights made of high quality stainless steel
- Comes with a sturdy plastic storage block

Cat. No.	Description	Price
S23983	One each of 5g, 10g, 50g, 100g, and 500g, plus two each of 20g and 200g Weights	63.00/Ea
S23984	One each of 5g, 10g, 50g, 100g, 500g, and 1000g, plus two each of 20g and 200g Weights	89.00/Ea
S23985	(1) 200g, (2) 100g, (3) 50g, and (4) 20g Weights	39.00/Ea

## United Scientific™ Black Enamel Hooked Weight Set

Cast iron weights with black enamel finish can be hooked in tandem.

Set contains nine weights:  
One each of: Two each of:

- 10g
- 20g
- 50g
- 200g
- 100g
- 500g
- 1000g



Cat. No.	Description	Price
S96418	Hooked Weight Set	59.50/Ea

## GSC Go Science Crazy 9-Piece Hooked Weight Set

Quality accurately calibrated weight set with case



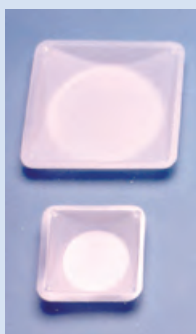
Nine Piece Hooked Weight Set with two cast iron hooked weights (1000g, 500g), seven brass hooked weights (two 200g, one 100g, one 50g, two 20g, one 10g), and case

Cat. No.	Description	Price
S24634	9-Piece Hooked Weight Set	85.00/Ea

## fisherbrand Polystyrene Weighing Dishes

Ideal for weighing, dispensing or storing applications.

- Contaminant-free, antistatic and biologically inert
- Resist dilute acids, aqueous solutions, alcohols and bases
- Flat bottoms resist tipping
- Made from 12mil thick polystyrene for better strength, stability and handling ease
- Disposable
- Height: 1 in. (2.54cm)



Cat. No.	Length (Metric)	Width (Metric)	Price
S67090A	88.9mm	88.9mm	58.00/Cs
S67091A	139 mm	139 mm	88.00/Cs

## Disposable Aluminum Dishes

Withstand temperatures up to 677°C (1250.6°F).

- Designed for weighing, dispensing and storing
- Can be used as evaporating dishes or as dust covers
- With crimped sides for rigidity and a smooth bottom



**ORDERING INFORMATION:**  
Sold in packs of 100.

Cat. No.	Capacity (Metric)	Price
S40283	20 mL	14.50/Pk
S40284	50 mL	14.76/Pk
S40285	70 mL	39.50/Pk

## Disposable Polystyrene Weighing Dishes

Easy-grip contour sides for nonslip handling.



Perfect for staining or destaining electrophoresis mini-gels.

- A pouring spout can be formed by squeezing
- Square shape ensures its flexibility on a balance platform
- Smooth surface and rounded corners make powdered or granular samples easy to remove

Cat. No.	Height (Metric)	Length (Metric)	Width (Metric)	Price
S40291	0.95 cm	4.4 cm	4.4 cm	33.15/Cs
S40292	1.9 cm	8.3 cm	8.3 cm	44.03/Cs
S40293	2.2 cm	13.97 cm	13.97 cm	85.99/Cs

## Nitrogen-Free Weighing Papers

Sturdy and nonabsorbent.



- Supports sample
- Smooth texture avoids trapping of material
- Will not absorb moisture
- Sold in packs of 500
- Packaged in 4 mil poly bag for extra protection

Cat. No.	Dimensions (L x W)	Price
S402881	4 x 4 in. (100 x 100mm)	18.50/Pk
S402871	3 x 3 in. (76 x 76mm)	9.90/Pk



## fisherbrand PTFE Disposable Stir Bars

The multifaceted magnetic stirring bar surface adds turbulence relative to similar size smooth cylindrical stirring bars.

- Ideal for single use applications mixing radioactive reagents or when cross contamination might be a concern
- Alnico magnet encapsulated in FDA Grade, USP Class VI PTFE low friction coating; durable and inert
- Manufactured in a registered ISO 9001:2008 facility, as verified by SGS certification
- Autoclavable
- White



Cat. No.	Diameter (Metric)	Length (Metric)	Price
S68066	8mm	25.4mm	26.00/Pk
S68067	8mm	41.3mm	30.00/Pk
S68068	8mm	50.8mm	26.00/Pk

## fisherbrand Octagon Spinbar™ Magnetic Stirring Bars

Octagon magnetic stirring bars with integral pivot ring are the most commonly used shape for stirring small volumes in vessels such as vials, tubes and gradient makers.

Particularly useful for environmental testing and life science applications in which small sample volumes need to be prepared and evaluated.

- Alnico magnet encapsulated in FDA Grade, USP Class VI Teflon™ PTFE low friction coating;
- Constructed of durable and inert materials
- Autoclavable
- Interrupted profile provides greater surface area and added turbulence when compared to the smooth surface of cylindrical bars
- Pivot ring aids in reducing friction and chattering (F37110-1218 does not have a pivot ring)
- Manufactured in a registered ISO 9001:2008 facility, as verified by SGS certification
- White
- Octagonal shape



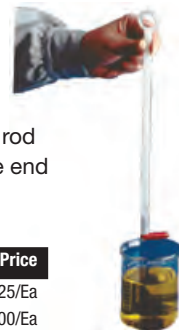
**CERTIFICATIONS:** USP Class VI, ISO 9001:2008, SGS

Cat. No.	Diameter (Metric)	Length (Metric)	Price
S68073	0.8cm	1.6mm	4.95/Ea
S68072	8mm	12.7mm	4.90/Ea
S68069	8mm	25.4mm	5.25/Ea
S68070	8mm	38mm	5.90/Ea
S68071	9.5mm	50.8mm	10.25/Ea

## Magnetic Spinbar™ Retrievers

Reach down drains for lost bars.

- 0.38 in. (9.5mm) dia. polyethylene pick-up rod
- With powerful Alnico magnet sealed in one end
- Handy hang-up grip on other end



Cat. No.	Length (English)	Price
S5039812	12 in.	16.25/Ea
S5039818	18 in.	25.00/Ea

## fisherbrand Soft Glass Rods

With rounded and fire-polished ends.

- Constructed of glass
- A stirring rod is used to mix chemicals and liquids for laboratory purposes



Cat. No.	Diameter (Metric)	Length (Metric)	Price
S63449	5mm	200mm	32.75/Pk
S63450	6mm	250mm	53.75/Pk

## fisherbrand Standard Flint Glass Rods

Standard flint glass rods for stirring and sealing.

Length: 5 ft. (1.5m); 10 lb. (4.5kg). Tolerance on diameter: ±0.25mm.

**ORDERING INFORMATION:**

Length: 5 ft. (1.5m); 10 lb. (4.5kg)



Cat. No.	Diameter (Metric)	Price
S63445	5mm	207.00/Pk

## Policemen Stirring Rods

Round molded polypropylene rods.

- One end flattened and cut diagonally
- Dimensions: 0.18 dia. × 8 in. (4.67 × 203mm)
- Steam autoclavable at 121°C (250°F)
- Sold in packs of six



Cat. No.	Description	Price
S50357	Policement Stirring Rods	21.00/Pk

## Centrifuges

**Compact II Centrifuge**

Safety shield protects operators from accidents.

- 30-minute timer with hold
- Capacity: 90mL (6 × 15mL)
- For 120V 60Hz, 1.5A
- Six-place angle head centrifuge with safety shield
- Runs at fixed 3200rpm; 3060 to 3400rpm range
- Dimensions: 7.5 dia. × 10 in.H (19.0 × 25.4cm)
- Adapters allow 5mL taper-bottom or 13 × 100mm or 16 × 100mm culture tubes

**INCLUDES:**

- Stainless-steel shields with cushions
- 12 adapters
- 6 ft. (1.8m) heavy-duty cord

Cat. No.	Description	Price
S49080	Compact Centrifuge	1565.00/Ea

**RevSPin RS-200 Microcentrifuge**

Spins 0.2, 1.5, or 2.0mL tubes from 2000 to 10,000rpm.

- Imbalance detection system prevents damage to samples or centrifuge
- Easy-change rotor includes 16-position 1.5/2.0mL rotor
- Four 8 × 2.0mL strip rotors are also available
- Easy-load rotor allows tubes to be loaded and unloaded in a vertical position while spinning at a 45° angle
- Forced-air ventilation assures specimens, rotor, and motor stay cool, even during extended runs
- Features a high-efficiency permanent magnet DC motor; rapid slowdown, from 10,000rpm to zero in approximately 20 seconds
- Oversized 8mm shaft will not bend from abuse or imbalance
- Automated switching circuit allows operation from 100 to 230VAC

**Safety and Specifications:**

- Compact, efficient rounded shape saves on bench space
- Tough, high-impact housing will not dent, rust, or chip
- Durable polycarbonate cover allows complete rotor and tube visibility
- Oversized soft rubber base efficiently absorbs vibration and noise transmitted to work surface
- Interlock switch cuts power until cover is locked in place
- Double electrically insulated construction
- Grounded power cord
- Digital timer: 60 min.
- Power requirements: 100 to 230VAC, 60Hz, 1.5A
- Dimensions: 7.5 dia. × 9 in.H (19 × 22.9cm)
- Speed selections: Off/Pulse/2000 to 10,000rpm
- RCF: 1735 to 6238

**WARRANTY:**

Two years, repair or replacement

Cat. No.	Description	Price
S90305B	Microcentrifuge	499.00/Ea

**Edvotek™ Personal Microcentrifuge**

Useful for teaching lab applications including sample spin-downs and cell pelleting.

- Easy-to-use and economical
- Speed is 6400rpm with relative force of 2046 x g

**INCLUDES:**

6-place rotor for 1.5/2.0mL tubes, and second rotor for two 8 × 0.2mL strip tubes.



Cat. No.	Description	Price
S05661	Personal Microcentrifuge	420.00/Ea

**Ohaus™ Frontier™ 5306 Mini Centrifuge**

Ohaus Frontier 5306 is powerful and convenient mini centrifuge for simple and rapid liquid separation. Frontier 5306 also has quick release design in which rotors can be removed and installed without use of any tools.

**Quiet operation**

- Low voltage power input, quiet motor, and rubber base that absorbs vibrations
- Keeps operational noise to minimum and reduces disruptions in laboratory
- Capacity: 8 × 1.5/2mL tubes
- Max speed: 6000rpm
- Max RCF: 2000 x g

**Protective features**

- Many safety attributes, including low voltage power input, sturdy lid
- Two safety switches which immediately stop rotors, lid open while in rotation
- Imbalance sensor also stops centrifuge if rotors become imbalanced or sudden shock occurs
- Protects operator from being injured by high-speed spinning rotors

**Simple one-step operation**

- Takes simple operation to new level
- Place sample in centrifuge, close lid, and system begins to rotate after switching on
- Not even one button press is needed in order to separate your sample



Cat. No.	Description	Price
S43248	Frontier 5306Mini Centrifuge	185.00/Ea

## Ohaus Frontier 5000 Series Refrigerated Microcentrifuge

Smooth and dependable High-Speed Microliter Centrifuge for Life Science Separation Applications



- Easy-to-Use Control Panel that Supports Simple Operation—The intuitive control panel with rotary knob puts the centrifuge's simple operations at your fingertips, including the ability to set and recall speed and g-force, as well as control the temperature
- Sophisticated Technology that Drives High-Performance—A powerful brushless induction motor, 10 acceleration and deceleration settings, and memory for up to 99 commonly-used parameters are a few of Frontier's features that propel high-performance.
- Safety Features that Protect Against Injury—Among Frontier's safety attributes are a motorized lid locking system and a rotor imbalance sensor that stops the centrifuge if the rotors become imbalanced or sudden shock occurs, protecting the operator from the high-speed spinning rotors.
- Capacity: 12 x 5, 4 x 8 PCR strips
- Temperature range: -20° to 40°C (-4° to 104°F)

- Max speed: 15,200rpm
- Max RCF: 21,953 x g
- For 120V 50/60Hz

**REQUIRES:**  
Customer Selected Rotor

**WARRANTY:**  
2 years



Cat. No.	Description	Price
S72185	Model number FC5515R	5615.00/Ea

## Ohaus Frontier 5000 Series Multi Centrifuge

Frontier™ 5706 is a small benchtop multi-function centrifuge ideal for a multitude of spin-down applications. Characterized by reliability, various safety features and the ability to accommodate test tubes of various sizes, Frontier 5706 was designed to meet the basic needs for liquid separation.



- Capacity: 6 x 50mL
- Max speed: 6000rpm
- Max RCF: 4427 x g
- For 120/220V 50/60Hz
- Extremely Simple and Intuitive Operation—With an easy-to-turn control knob, a large LCD display and the capabilities to set and view both speed in rpm and g-force, obtain precise results and enhanced functionality from this easy-to-use centrifuge.
- Compatibility with Test Tubes of Various Sizes—Frontier 5706 can accommodate all standard tube sizes from 1.5 mL to 50 mL, providing centrifugation for a wide variety of applications. It also has a large capacity, and can hold six 50 mL tubes and twelve 15 mL tubes during one process.

- Several Safety Features—Among Frontier 5706's safety attributes are a sturdy mechanical lid with locking system and a rotor imbalance sensor that stops the centrifuge if the rotors become imbalanced, protecting the operator from the high-speed spinning rotors.

**REQUIRES:** Customer Selected Rotor

**WARRANTY:** 2 years



Cat. No.	Description	Price
S72193	Model Number FC5706	1990.00/Ea

## Thermo Scientific™ mySPIN™ Mini Centrifuge

Bring increased efficiency and user comfort to your lab with Thermo Scientific mySPIN 6 and 12 mini centrifuges

Tool-free rotors and quick-spin options make them fast and easy to use. Benefit from a compact footprint that fits into your workstation and ergonomic design that stands out. Ideal for microfilter cell separation and HPLC protocols, with the mySPIN 12 centrifuge also supporting PCR, as well as clinical and diagnostic applications.

**Benefit from:**

- Compact footprint
- Easy operation
- Low noise, low vibration
- Tool-free, quick rotor exchange

**mySPIN 12 mini centrifuge also features:**

- Imbalance and tilt safety cutoff, as well as safety interlock lid designed to prevent opening while rotor is turning
- Flexibility: ideal for most protocols
- Ability to perform fast spins with higher RCF requirements
- Back-lit, customizable display that can be set for rpm or RCF

**Applications:**

- mySPIN 12 centrifuge is ideal for most protocols requiring fast spins (12,500rpm/9,800 x g), and appropriate for PCR, microfilter cell separation, and HPLC protocols



Cat. No.	Description	Price
S28435	Mini Spin 12	1089.00/Ea

# Ohaus Frontier 5000 Series Multi Pro Centrifuges

Powerful and versatile universal centrifuge for virtually every lab application



## Powerful Platform Offers Maximum Flexibility for a Range of Applications

- Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.

## Intuitively Designed for User-Friendly Operation

- The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications. Features include automatic rotor recognition and backlit LCD.

## Solid Engineering Ensures Reliability and Durability

- The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use. Constructed of chemical-resistant stainless steel to ensure durability in lab use.

## Increased Safety With Built-in Protective Features

- Frontier 5000 Series is equipped with protective features, including automatic over-speed protection, imbalance detection and self-diagnostic system to ensure reliable use and operator safety.

## All Models:

- For 120V 50/60Hz
- Rotor required (sold separately)
- Two-year warranty

### FC5714 - Ventilated

- Capacity: 4 x 100mL
- Max speed: 18,624rpm
- MaxRCF: 4427 x g



### FC5718 - Ventilated

- Capacity: 4 x 100mL
- Max speed: 18,000rpm
- MaxRCF: 23,542 x g



### FC5718R - Refrigerated

- Capacity: 4 x 100mL
- Max speed: 18,000rpm
- MaxRCF: 23,542 x g



### FC5816 - Ventilated

- Capacity: 6 x 250mL
- Max speed: 15,000rpm
- MaxRCF: 21,379 x g



### FC5816R - Refrigerated

- Capacity: 6 x 250mL
- Max speed: 16,000rpm
- MaxRCF: 24,325 x g



Cat. No.	Description	Price
<b>Standard</b>		
S72197	Model number FC5714	2925.00/Ea
S72207	Model number FC5718	4355.00/Ea
S72219	Model number FC5816	5200.00/Ea
<b>Refrigerated</b>		
S72236	Model number FC5816R	7895.00/Ea
S72218	Model number FC5718R	6510.00/Ea



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## Ohaus™ Rotors

For use with Ohaus Frontier 5000 Series Microcentrifuges.

- Two-year Warranty.



Cat. No.	Capacity	Model	Features	Angle	Max Speed (rpm)	Max RCF (x g)	For Ohaus Centrifuge Model	Price
<b>Fixed-Angle Rotors</b>								
<b>S72208</b>	4 x 8-Place	R-A4xPCR/15I	For PCR Strips	45°	15,000	15,343	FC5718; FC5718R	1820.00/Ea
<b>S72190</b>	4 x 8-Place	R-A4xPCR/15I	For PCR Strips	45°	15,000	15,342	FC5515, FC5515R	1620.00/Ea
<b>S72215</b>	4 x 85mL	R-A4x85/12MI	High-speed, for round-bottom tubes	30°	12,000	14,809	FC5718; FC5718R; FC5816; FC5816R	2056.00/Ea
<b>S72214</b>	6 x 50mL	R-A6x50/13MI	High-speed, for round-bottom tubes		13,000	15,869	FC5718; FC5718R; FC5816; FC5816R	1748.00/Ea
<b>S72195</b>	6 x 50mL	R-A6x50/6M	for Round-bottom or conical tubes	40°	6000	4427	FC5706	930.00/Ea
<b>S72202</b>	6 x 50mL	R-A6x50/6MI	for Round-bottom tubes	40	6000	4427	FC5714; FC5718; FC5718R	872.00/Ea
<b>S72216</b>	6 x 85mL	R-A6x85/14MI	for round-bottom tubes	25°	13,000	21,726	FC5718; FC5718R	2015.00/Ea
<b>S72217</b>	6 x 85mL	R-A6x85/13MI	High-speed, for round-bottom tubes		13,500	20,984	FC5714, FC5718, FC5718R, FC5816, FC5816R	1989.00/Ea
<b>S72220</b>	6 x 250mL	R-A6x250/8MI	for flat-bottom tubes	28°	8000	10,016	FC5816; FC5816R	3567.00/Ea
<b>S72211</b>	10 x 50mL	R-A10x50/10MI		38°	10,500	16,022	FC5718; FC5718R; FC5816; FC5816R	2553.00/Ea
<b>S72210</b>	12 x 1.5/2.0mL	R-A12x2/18MI		40°	18,000	23,542	FC5718; FC5718R	1261.00/Ea
<b>S72200</b>	12 x 1.5/15mL	R-A12x15/6M	32° pitch; for round-bottom tubes	32°	6000	4427	FC5714, FC5718, FC5718R, FC5816, FC5816R	882.00/Ea
<b>S72189</b>	12 x 5mL	R-A12x5/14MS	Sealable	45°	14,500	19,978	FC5515, FC5515R	1380.00/Ea
<b>S72194</b>	12 x 15mL	R-A12x15/6MI	for Round-bottom or conical tubes	32°	6000	4427	FC5714; FC5718; FC5718R	525.00/Ea
<b>S72213</b>	20 x 10mL	R-A20x10/12MI	High-speed, for round-bottom tubes	30°	12,000	15,775	FC5718; FC5718R; FC5816; FC5816R	1799.00/Ea
<b>S72206</b>	24 x 1.5/2.0	R-A24x2/16MI	Sealable	45°	16,000	24,325	FC5714; FC5718; FC5718R; FC5816; FC5816R	1041.00/Ea
<b>S72186</b>	24 x 1.5/2.0mL	R-A24x2/16MI	45° pitch	45°	15,200	21,953	FC5515, FC5515R	690.00/Ea
<b>S72187</b>	24 x 1.5/2.0mL	R-A24x2/15MS	Sealable	45°	15,200	21,953	FC5515, FC5515R	920.00/Ea
<b>S72198</b>	24 x 1.5/2.0mL	R-A24x1.5/2.0ML,ID			16,000	24,325	FC5714, FC5718, FC5718R, FC5816, FC5816R	785.00/Ea
<b>S72199</b>	30 x 1.5/2.0mL	R-A30x15/4MI	Sealable	35°	14,000	20,595	FC5714; FC5718; FC5718R	1405.00/Ea
<b>S72188</b>	30 x 1.5/2.0mL	R-A30x2/13MS	Sealable	45°	13,500	19,150	FC5515, FC5515R	1235.00/Ea
<b>S72201</b>	30 x 15mL	R-A30x15/4MI	for Round-bottom tubes	35°	4500	2830	FC5714; FC5718; FC5718R; FC5816; FC5816R	1359.00/Ea
<b>S72212</b>	44 x 1.5/2.0mL	R-A44x2/16MI	Sealable	32°/55°	16,000	24,039	FC5718; FC5718R; FC5816; FC5816R	1107.00/Ea
<b>S72191</b>	44 x 1.5/2.0mL	R-A44x2/13M	Sealable	32°/55°	13,500	17,317		794.00/Ea
<b>S72209</b>	64 x 0.5mL	R-A64x0.5/13I	Sealable	40°	13,500	16,289	FC5718; FC5718R	1277.00/Ea
<b>Swing-Out Rotors</b>								
<b>S72203</b>	2 x 3 MTP	R-S6xMTP/4MI	For microplates	0°- 90°	4500	2716	FC5714; FC5718; FC5718R; FC5816; FC5816R	1748.00/Ea
<b>S72196</b>	6 x 5mL	R-S6x5/4	Aluminum body; for Round-bottom tubes	0°- 90°	4000	1817	FC5706	625.00/Ea
<b>S72204</b>	4 x 100mL	R-S4x100/5MIS	Sealable	0°- 90°	5000	3885	FC5714; FC5718; FC5718R	1010.00/Ea
<b>S72205</b>	4 x 100mL	R-S4x100/4MI		0°- 90°	4500	3350	FC5714; FC5718; FC5718R	1200.00/Ea
<b>S72230</b>	4 x 250mL	R-S4x250/4ML		0°- 90°	4500	3780	FC5714; FC5718; FC5718R	1446.00/Ea
<b>S72235</b>	16 x 50mL	R-S16x50/4MI		0°- 90°	4500	3735	FC5816; FC5816R	2143.00/Ea
<b>Hematocrit Rotor</b>								
<b>S72192</b>	24 x Capillaries	R-A24xCAP/12	With cover	90°	12,000	14,970	FC5515, FC5515R	595.00/Ea

## United Scientific™ Microcentrifuge Tubes, Rainbow Pack

Autoclavable tubes can be used in very low temperatures and with various organic solvents.



- Made from virgin polypropylene
- RNase, DNase and Pyrogen free for safe use in molecular biology and other biochemical applications
- Features connected snap cap, large molded-in graduations and frosted surface for easier writing
- Maximum RCF 20000
- Assortment includes 125 each of red, blue, yellow and green tubes

Cat. No.	Description	Price
S13082	Micro Centrifuge Tubes; Rainbow Pack	12.50/Pk

## United Scientific™ Centrifuge Tubes

Identify your samples easily with these write-on tubes.

- Blue screw top with easy-to-read black graduations
- Sterile, conical bottom
- Working temperature range: 0° to 40°C (32° to 104°F)
- Package: 50 per foam rack
- Polypropylene
- Marking area



Cat. No.	Capacity (Metric)	Packaging	Type	Price
S99410	15mL	Rack	Centrifuge Tube	15.00/Pk
S99411	50mL	Bulk	Centrifuge Tube	12.50/Pk
S99412	50mL	Bulk	Centrifuge Tube, Self Standing	15.00/Pk

## GSC Go Science Crazy Centrifuge Tubes

Centrifuge Tubes hold various liquid mixtures or liquids containing suspended solids to be spun and separated in a centrifuge. Graduated with a frosted writing area.

- Polypropylene
- Do not autoclave

Cat. No.	Capacity (Metric)	Sterile	No. per Pack	Price
S39025	0.5mL	No	1000	20.75/Pk
S39026	1.5mL	No	500	16.00/Pk
S39028	15mL	Yes	50	10.50/Pk
S39029	50ml	No	50	10.50/Pk



## Centrifuge Tube Boxes

Centrifuge Tube Boxes feature a gridded top to keep track of the tubes in each well to make tracking samples easy

- Cardboard
- Do not autoclave
- White



Cat. No.	Capacity	Price
S39031	36 15-mL tubes	15.00/Ea
S39032	16 50-mL tubes	15.00/Ea

## Connecting Microcentrifuge Tube Rack

Maximize storage and save benchtop space with microcentrifuge tube racks that are stackable when loaded or empty

Locking clips firmly connect multiple racks together to form larger arrays that can be easily transported.

- Clear
- Securely hold 24 microcentrifuge tubes, either 0.5mL or 1.5 to 2.0mL
- Can be combined when multiple tube sizes are used
- Durable, lightweight polycarbonate; UV resistant
- Can be stored at temperatures down to -80°C
- Steam autoclavable at 121°C (250°F)
- Dimensions: 10.62 x 1.75 x 2.5 in. (26.8 x 4.8 x 6.4cm)



Cat. No.	Holds	Price
S90132A	Connecting Microcentrifuge Tube Rack	31.00/Ea

Fume Hoods

## Labconco™ Paramount™ Ductless Enclosure Carbon Filter

Filter used with Paramount Ductless Enclosures.

- Carbon filters rid the lab of annoying or unsafe concentrations of organic solvents, formaldehyde, acid gases, ammonia, or radioisotopes
- 38 D x 46cm W
- Length: 25.4 to 51 cm

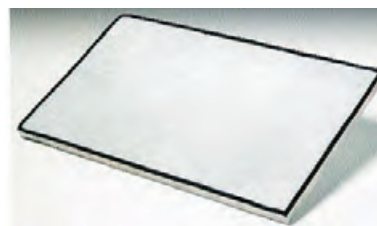


Cat. No.	Description	Price
S15406	Mixed - Organic Vapor, Acid-Sulfur, Ammonia-Amine, and Formaldehyde Fumes	380.00/Ea
S28168	Ammonia-Amine	360.00/Ea
S28166	Organic Vapor	272.00/Ea
S28169	Formaldehyde-Formalin	440.00/Ea
S28167	Acid-Sulfur	415.00/Ea

## Labconco™ Paramount™ Prefilter

Labconco™ Paramount Prefilter used with carbon-based and HEPA filters in variety of Labconco™ enclosures which require periodic replacement.

- Used with carbon-based and HEPA filters in variety of Labconco enclosures which require periodic replacement
- Select the right filters to fit your Labconco product



Cat. No.	Description	Price
S28163	Roughing Prefilter	39.00/Pk
S28164	Electrostatic Prefilter	226.00/PK

## Basic™ Laboratory Hoods

Basic Laboratory Hoods are designed specifically for laboratories, classrooms and light duty applications where safe ventilation is required. Basic Hoods have smaller overall height and depth than traditional hoods so they fit in areas with low ceilings or narrow aisles.

- Curved air foil that lifts off for cleaning
- Glacier white powder-coated, 16 gauge steel exterior and interior
- Vapor-proof incandescent lights
- Two-piece adjustable baffle
- Thick tempered safety glass 4.7mm (0.187 in.)
- Vertical-rising sash with epoxy-coated aluminum sash handle
- Removable front panel for access to electrical wiring
- Powder-coated steel 26.1cm (10.3 in.) OD exhaust connection
- By-pass airflow design
- Factory-prepared right side fixture panel for up to three service fixtures, one duplex electrical receptacle and one airflow monitor (fixtures, receptacle and monitor not included)
- Factory-prepared right interior wall for one cupsink and turret (cupsink and turret not included)

**CERTIFICATIONS/COMPLIANCE:**  
ANSI Z9.5, ASHRAE 110, ASTM E84, CAN/CSA C22.2, NFPA 45, SEFA 1, UL



Cat. No.	Description	Electrical Requirements	Dimensions (L x W x H)	Pressure	Price
S28126	Basic 47	100 - 115V, 50/60Hz, 1A, Domestic	63.5 x 119.4 x 121.9cm (25 x 47 x 48 in.)	With sash full open, exhausts 720 CFM at 0.25 in. H <sub>2</sub> O maximum external static pressure (CFM/Static pressure at 100 fpm)	4485.00/Ea
S51259MF	Basic 47	115V, 60Hz, 6.8A, Domestic	63.5 x 119.4 x 134.6cm (25 x 47 x 53 in.)	With sash full open, exhausts 720 CFM at 0.25 in. H <sub>2</sub> O maximum external static pressure (CFM/Static pressure at 100 fpm)	5780.00/Ea
S28127	Basic 70	100 - 115V, 50/60Hz, 1A, Domestic	63.5 x 177.8 x 121.9cm (25 x 70 x 48 in.)	With sash full open, exhausts 1120 CFM at 0.57 in. H <sub>2</sub> O static pressure (CFM/Static pressure at 100 fpm)	5630.00/Ea
S28128	Basic 70	115V, 60Hz, 12.9A, Domestic	63.5 x 177.8 x 121.9cm (25 x 70 x 48 in.)	With sash full open, exhausts 1120 CFM at 0.57 in. H <sub>2</sub> O maximum external static pressure (CFM/Static pressure at 100 fpm)	7605.00/Ea

## Labconco™ Protector™ ClassMate™ Laboratory Hoods

Designed to meet the needs of instructional laboratories. Labconco Protector ClassMate Laboratory Hoods are fully-featured benchtop hoods with clear back and sides for enhanced visibility for conducting demonstrations or observing students.



Clear back and sides and taller front viewing window provide enhanced visibility for conducting chemistry demonstrations or observing students using the hood. The clear back also does not obstruct visibility when hoods are placed back-to-back in an island configuration.

Fully-featured with baffle and air foil, this high-performance by-pass hood maintains safe airflow while conserving energy.

- SEFA 1 High Performance Hood
- Patented design
- By-pass airflow design
- Glacier white powder-coated steel frame
- Ergonomic air foil with aerodynamic Clean-Sweep airflow openings
- Low-profile, ADA-compliant spill trough
- Clear, 1/4 in. thick, tempered safety glass sides, back and removable baffle
- 5° angled, 1/4 in. thick tempered safety glass stationary viewing panel and 3/16 in. thick chain-driven sash with anti-racking shaft and powder-coated steel frame that provides 37.5 in. high visibility
- Powder-coated sash handle with aerodynamic Clean-Sweep airflow openings

- High-performance, 3-piece glass baffle that pivots for cleaning
- Cord-Keeper slots on left and right side of air foil
- Pre-wired LED lighting, light switch and blower switch
- Powder-coated stainless steel tissue screen located directly below exhaust outlet
- Removable front panel, side panels and interior cover plates for access to plumbing and electrical wiring
- Powder-coated stainless steel 12.81 in. ID exhaust connection
- On vertical-rising sashes: sash stop at 18" height from work surface (60% open). Can be field modified to 14" from work surface. Fully open sash is 28" from work surface.



### Combination Sash Models Feature

- Combination horizontal-sliding/vertical-rising sashes that allow the operator to use the hood with the sashes half open either horizontally or vertically.
- Sash stop at 14 in. height from work surface (50% vertical opening). Can be field modified to 18 in. from work surface. Fully open sash is 28 in. from work surface

### REQUIRES:

Remote blower, Ductwork, Work surface, Base cabinet or stand

### CERTIFICATIONS/ COMPLIANCE:

ANSI Z9.5, ASHRAE 110, ASTM E84, CAN/CSA C22.2, CFR 29, NFPA 45, SEFA 1, SEFA 8 (Cabinet Surface Finish), UL 1805, UL 61010

Cat. No.	Width	Weight	Includes	Lighting	Electrical Requirements	Price
S71809	4 ft.	400 lb.	1 Duplex, 2 Service Fixtures	LED	100-115V 50/60Hz, 10A	9265.00/Ea
S71831	5 ft.	490 lb.	1 Duplex, 2 Service Fixtures	LED	100-115V 50/60Hz, 10A	9890.00/Ea
S71843	6 ft.	560 lb.	1 Duplex, 2 Service Fixtures	LED	100-115V 50/60Hz, 10A	10180.00/Ea

## Labconco™ Protector™ ClassMate™ SpillStopper™ Work Surfaces



Designed to protect fume hoods from accidental spills.

- Dished and contoured to conform to interior liner of Protector Classmate Laboratory Hoods.
- Molded from corrosion-resistant epoxy resins
- Contoured to conform to interior liner
- Dished design helps to contain spills
- Front edge has large radius to direct airflow into the hood
- Pre-drilled holes for venting and plumbing passthrough
- May be ordered with oval cupsink cutout(s)



### ORDERING INFORMATION:

Cupsink sold separately.

Cat. No.	Depth	Height	Weight	Cut Style	Price
<b>4 ft. wide</b>					
S71854	26 in.	1.25 in.	110 lb.	Left rear	1800.00/Ea
S71852	26 in.	1.25 in.	110 lb.	Right rear	1800.00/Ea
S71856	26 in.	1.25 in.	110 lb.	Left and right rear	1995.00/Ea

Cat. No.	Depth	Height	Weight	Cut Style	Price
<b>5 ft. wide</b>					
S71860	26 in.	1.25 in.	150 lb.	No cutout	1980.00/Ea
S71863	26 in.	1.25 in.	150 lb.	Left rear	2200.00/Ea
S71861	26 in.	1.25 in.	150 lb.	Right rear	2200.00/Ea
S71865	26 in.	1.25 in.	150 lb.	Left and right rear	2395.00/Ea
<b>6 ft. wide</b>					
S71869	26 in.	1.25 in.	205 lb.	No cutout	2385.00/Ea
S71872	26 in.	1.25 in.	205 lb.	Left rear	2580.00/Ea
S71870	26 in.	1.25 in.	205 lb.	Right rear	2580.00/Ea
S71874	26 in.	1.25 in.	205 lb.	Left and right rear	2595.00/Ea



Heaters & Incubators

## fisherbrand Isotemp™ Digital Dry Baths/Block Heaters

Increase lab versatility with a range of configurations with interchangeable modular blocks for a variety of application needs.

- Digital controls and display of time and temperature
- Advanced internal temperature sensing probe for outstanding temperature accuracy and control
- Precise temperature control with PID circuit
- Temperature calibration enables to offset the temperature to desired value
- Timer allows the user to accurately monitor the heating time
- Wide range of interchangeable aluminum alloy heat blocks provide versatility and allow for easy cleaning and disinfecting
- Powder-coated steel body construction ensures durability
- Built-in over-temperature protection device warrants sample and user safety
- Temperature deviation adjustment
- Temperature range: 30° to 130°C
- Time to max. temperature: ≤20 min.
- for 100/120V 50/60Hz

**Applications:**

Sample preparation, enzyme preservation, enzyme-substrate reactions, DNA amplification, electrophoresis gel degeneration and serum coagulation

**WARRANTY:**

2-year Thermo Fisher Scientific standard, limited warranty. Contact your sales representative for details.



Cat. No.	Description	Price
S28681	Single Block Digital Dry Bath Block Heater	447.00/Ea
S28682	Dual Block Digital Dry Bath Block Heater	497.00/Ea
S28683	4 Block Digital Dry Bath Block Heater	599.00/Ea

## Ohaus™ Dry Block Heaters

Designed for applications that require repeatable results and superior temperature stability.

Dry block heaters require either one or two modular blocks, sold separately.

- Ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points and a wide variety of other laboratory procedures
- Temperature range: Ambient 5° to 120°C
- Integral support rod holder with locking knob accepts optional external temperature probe kit
- Accept separate interchangeable modular blocks (sold separately), accommodating various tube sizes from 0.2mL microtubes to 50mL centrifuge tubes
- Each block has a thermometer well for measuring block temperature (blocks sold separately)
- Efficient heater features close tube-and-block contact with a low-density design for exceptional temperature uniformity
- With microprocessor control, LED display, audible alarm, temperature calibration mode

**APPLICATIONS:**

Denaturing proteins, DNA applications, ELISA and other immunoassay studies



**⚠ ALERTS:**  
To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed as a dry bath/incubator.

Cat. No.	Capacity	Electrical Requirements	Heat Up Time	Price
<b>Digital Models</b>				
S38783	2 Blocks	120V, 0.9A, 110w	45 min.	375.00/Ea
S38782	1 Block	120V, 1.7A, 210w	50 min.	476.00/Ea
<b>Analog Models</b>				
S38781	2 Blocks	120V 50/60Hz	45 min.	336.00/Ea
S38780	1 Block	230V 50Hz	50 min.	436.00/Ea

## Thermo Scientific™ Heratherm™ Compact Microbiological Incubator

Extremely small footprint, making it ideal for personalized workspace or for crowded labs with small sample volumes.

- Temperatures at or below ambient: 17° to 40°C (62.6° to 104°F)
- Internal light and window in door facilitates sample observation
- Temperature uniformity of  $\pm 1.2^{\circ}\text{C}$  (measured at 37°C [98.6°F])
- Temperature stability of  $\pm 0.2^{\circ}\text{C}$  (measured at 37°C [98.6°F])
- High temperature accuracy
- Easy-to-use interface
- Capacity: 4.8 gal. (18L)
- For 100/240V 50/60Hz

**CERTIFICATIONS:**  
cCSAus, CE marked



Cat. No.	Description	Price
S04313	Compact Microbiological Incubator	705.00/Ea

## OHAUS™ Modular Blocks and Accessories

Constructed from solid anodized aluminum block.

Modular blocks are sold separately from heaters.

- Close contact of tubes-to-block-walls allow for maximum heat retention
- Each block has a thermometer well for measuring block temperature

**⚠ ALERTS:**  
To avoid possible electrical hazard, DO NOT fill well or block with water or other liquids. Units are designed as a dry bath/incubator.



Cat. No.	Depth (Metric) Well	Diameter (Metric) Well	Description	Sample Type	Price
S38773	4.5cm	1.97cm	Vial Block	19mm Vial	141.00/Ea
S38774	4.8cm	1.75cm	Test Tube Block	15/16mm Tube	141.00/Ea
S38775	4.8cm	1.07cm	Test Tube Block	10mm Tube	141.00/Ea
S38776	4.76cm	2.9cm	Centrifuge Tube Block	50mL Tube	141.00/Ea
S38777	4.45cm	1.71cm	Centrifuge Tube Block	15mL Tube	141.00/Ea
S38778	1.35cm	----	Titer Plate Block	Titer Plate	290.00/Ea
S38779	3.91cm	1.1cm	Microcentrifuge Tube Block	1.5mL Tube	141.00/Ea

## Fisher Scientific™ Isotemp™ Microbiological Incubators

Precise, repeatable, thriving incubation

- Outstanding temperature uniformity and stability to keep samples at desired condition
- Wide temperature range: ambient +5°/10° to 75°C
- Intuitive and easy-to-use microprocessor controller
- Automatic over temperature alarm—no operator settings required
- Low air exchange provides minimal drying out of samples—ideal for long experiments
- On/off timer
- Corrosion resistant stainless steel interior with smooth corners for easy cleaning†
- Easy-to-clean rounded interior edges, designed to reduce contamination risks
- Flexible shelving with no tools required to set up, adjust or remove
- Small external dimensions per chamber size reduce required bench space
- For 120V 60Hz

### Construction Features:

- Stainless-steel exterior provides a clean professional look with surface that avoids fingerprint smudges
- Readily stackable same-size units Access port with silicone plug for independent data logging or for using small equipment inside the unit
- Flexible shelving system with different positions to optimize chamber space
- Large easy-to-view fluorescent display with intuitive microprocessor controller
- Internal glass door for undisturbed sample viewing

**CERTIFICATIONS:**  
cCSAus certified

**WARRANTY:**  
2 year parts and labor



Cat. No.	Description	Price
S28669	60L, Forced-Air	2100.00/Ea
S28670	100L, Forced-Air	2988.00/Ea
S28668	180L, Gravity Convection	2255.00/Ea

## Economy Lab Incubator

Trouble-free design heats up to 93°C (199.4°F). Welded double-wall construction is sturdily reinforced to withstand rugged environments. Interior is aluminum with an ivory powder-coated exterior finish.

- Automatic thermocontrol
- One adjustable and one fixed shelf
- Full-length, piano-type hinge
- Fiberglass insulation
- Scratch-proof rubber feet
- Positive door latch

### Specifications:

- Capacity: 0.7 cu. ft. (20L)
- 115VAC, 50/60Hz, 250w
- Weight: 30 lb. (13.6kg)
- Exterior:  
11L x 13W x 15 in.H  
(28 x 33 x 38cm)
- Interior:  
10D x 12W x 10 in.H  
(25.4 x 30.5 x 25.4cm)

### INCLUDES:

- Nontoxic spirit thermometer
- 6 ft. (1.8m) cord with plug

### CERTIFICATIONS:

UL/CUL listed.



## Incubators

See-through door allows for visual inspection without heat loss.

Designed for laboratories that need a compact unit for cultures, test kits, eggs and biologicals. Double-wall insulated construction and heat controller keep temperature uniformity ±0.5°C (±0.9°F).



- Capacity: 2 cu. ft. (56.4L)
- See-through tinted acrylic door allows you to view entire work space without opening door
- Exterior walls are rolled steel with baked-on powder-coated enamel finish
- Interior aluminum chamber has one adjustable and one fixed chrome-plated shelf
- Front panel features amber "in use" indicator light and illuminated red ON/OFF push-button
- Come with nontoxic spirit laboratory thermometer

### CERTIFICATIONS: UL/CUL listed.

Specifications	
Controller Type	Bimetal
Convection Type	Light pressure thermal
Temperature Range (Metric)	2 to 62°C
Temperature Uniformity	±0.5°C
Display	Color Graphic Display
Includes	Non-toxic spirit thermometer
Insulation	Fiberglass
Material (Internal)	Aluminum

Cat. No.	Description	Price
S50441A***	Economy Lab Incubator	595.00/Ea

Cat. No.	Dimensions	Price
S521081***	13 x 15 x 11 in.	516.00/Ea
S50909***	19 x 21 x 13 in.	666.00/Ea

## Digital Incubators

Dependable, compact, digital incubators for cultures, test kits, eggs and biologicals.

For clinical, industrial and school laboratories, physicians' offices and as a general-purpose warming cabinet.

- Microprocessor control maintains accurate settings within 0.5°C (0.9°F)
- UL/CUL listed
- Temperature tracking stores maximum process temperature deviation from set point in 0.1° units
- Maintain maximum temperatures up to 62°C (143.60°F) accurately and uniformly
- Chrome-plated adjustable shelf (six or 12 positions) and fixed bottom shelf
- See-through tinted acrylic door
- Ivory baked-on powder-coated enamel exterior
- For 115V
- Temperature range: +2° to 62°C
- Includes nontoxic spirit thermometer



Cat. No.	Capacity	Temperature Range (Metric)	Price
S68782A***	2 cu. ft., 56.4L	+2 to 62°C	1002.00/Ea
S68781A***	0.7 cu. ft., 19.7L	2 to 62°C	857.00/Ea

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Professional Line Incufridges

Professional Line Incufridge custom programmed to specific time and temperature protocols.

### Wi-Fi enabled

- Allows for critical data logging to be securely stored in cloud, no expensive software needed
- Allows for control and monitoring of the Incufridge remotely
- Alert notifications

### FEATURES:

- Can be custom programmed to specific time and temperature protocols
- Easy to use color touch screen
- Cools, heats or provides ambient environment
- Vibration free cooling system
- Settings stored in case of power failure
- Precision:  $\pm 0.7^{\circ}\text{C}$ , uniformity  $\pm 1.0^{\circ}\text{C}$
- Clear inner see-through door
- Door lock for valuable samples
- RS-IF-233pro model may be used to store or transport samples while working in the field
- Temperature range:  $1^{\circ}$  to  $75^{\circ}\text{C}$

### APPLICATIONS:

- Yeast and mold
- Milk testing
- QC samples/ biological indicators
- Hybridizations
- Water/ wastewater testing
- BOD testing
- Cell culturing



Cat. No.	Capacity (Metric)	Dimensions (D x W x H) Interior	Item Description	Electrical Requirements	Price
S28415	33L	41.9 x 30.4 x 26cm (16.5 x 12 x 10.25 in.)	Exterior Dimensions: 58.4 x 38.1 x 39.3cm (23 x 15 x 15.5 in.)	120-240V, 50-60Hz, 150W, 12VDC	1151.00/Ea
S28416	33L	41.9 x 30.4 x 26cm (16.5 x 12 x 10.25 in.)	Exterior Dimensions: 58.4 x 38.1 x 39.3cm (23 x 15 x 15.5 in.)	120-240V, 50-60Hz, 150W, 12VDC	1636.00/Ea
S28417	53L	41.9 x 30.4 x 41.9cm (16.5 x 12 x 16.5 in.)	Exterior dimensions: 58.4 x 38.1 x 54.6cm (23 x 15 x 21.5 in.)	120-240V, 50-60Hz, 150W	2170.00/Ea
S28418	73L	41.9 x 30.4 x 57.1cm (16.5 x 12 x 22.5 in.)	Exterior dimensions: 58.4 x 38.1 x 69.8cm (23 x 15 x 27.5 in.)	120-240V, 50-60Hz, 300W	3282.00/Ea

## Panasonic™ 1000w Commercial Microwave Oven

Perfect for heating of samples, general lab use, breakrooms and food prep areas

- Dimensions: 13 x 20 x 12 in.
- For 120V 60Hz 13.4A
- Stainless steel front, steel exterior and cavity with ceramic shelf
- Bottom energy feed
- 10 programmable memory pads
- Braille keypad
- 20-memory capability
- Double quantity key
- 6 power levels
- 2- and 3-stage cooking
- Programmable lock
- Unique "quick pick" preset times
- Self-diagnostics
- Output power 1000 Watts<sup>†</sup>

### WARRANTY:

3 year limited warranty \*I.E.C. 60705 Test Procedure. Specifications subject to change without notice

### COMPLIANCE:

ADA Compliance; -\$4.28.2 [(CFR) -28CFR Part 36] "For Alarms"; -\$4.27 "For controls and operating mechanisms"; Braille controls

### CERTIFICATIONS:

UL listed, DHHS, FCC, NSF



Cat. No.	Description	Price
S28645	Commercial Microwave Oven	925.00/Ea



Hotplates & Stirrers

# Ohaus™ Ergonomic Basic Mini Auto Stirrer and Hotplate-Stirrer

Compact units stir up to 1000mL of liquid.

- New Ergonomic Design
- Ideal for educational labs
- Supplied with 183cm (72 in.), 3-wire cord and plug and 3.8cm (1.5 in.) PTFE coated stir bar
- For 120V 50/60Hz, 0.5A
- Capacity: 1000mL
- Speed: 100 to 1200rpm

### Mini Basic Stirrer

- Ceramic (10.2 × 10.2cm) top plate does not heat up
- Features motor and magnet for consistent stirring
- Built in support rod holder
- 20w

### Mini Auto Stirrer

- Activates automatically by minimum weight of ~50 grams (1.75 oz.)
- Stirring stops when mixing vessel is removed
- 20w

### Mini Hotplate-Stirrer

- Max temperature: 400°C
- Boils 300mL of water in 18 minutes
- Ceramic top plate 10.16 × 10.16cm (4 × 4 in.) for even heating surface
- 585w

### Mini Hotplate

- Heats to 500°C

### WARRANTY:

2-Year

### CERTIFICATIONS:

TUV



Cat. No.	Description	Price
S38788	Mini Auto Stirrer	230.00/Ea
S38791	Mini Basic Stirrer	185.00/Ea
S38790	Mini Heater/Stirrer	349.00/Ea
S38792	Mini Hotplate	209.00/Ea

## fisherbrand Mini-Stirrer

Large diameter top minimizes spill risks, making it ideal for student use.

- Variable speed from 0 to 1650rpm
- 6 dia. × 3 in. high (15.2 × 7.6cm)
- Front-mounted, stepless control knob
- Strong aluminum top plate with baked enamel finish
- Large stirring surface reduces spill risks
- Includes stirring bars and support clamp (for mounting on lattice or other support)

**ORDERING INFORMATION:**  
For 115V



Cat. No.	Description	Price
S50450Q	Mini-stirrer, Aluminum 4¼in	397.50/Ea

## fisherbrand Hotplates, Stirrers and Hotplate/Stirrers

Heat from 150° to 590°C (302° to 1094°F); reach maximum temperature in minutes.

### Hotplate/Stirrers

- Reflective white ceramic top plate resists alkalis and acids and cleans easily; drip edge guards against spills
- Durable die-cast aluminum base
- Built-in ring stand holder
- Three-wire grounded cord
- HOT TOP indicator light alerts when top plate is too hot to touch For 120V 60Hz
- Variable analog speed control from 100 to 1200rpm – stir up to 0.52 gal. (2L) water
- Instant-on at 100rpm ensures smooth, safe, low-speed operation
- Come with support rod mount and PTFE-coated stir bar

### Ceramic-Top Magnetic Stirrers

- Variable speed control from 100 to 1400rpm
- Instant-on feature ensures uniform low-speed stirring at 100rpm
- Quiet-running, direct-drive motor
- Reflective, porcelain-coated stainless-steel top surface with drip edge protects internal components from spillage
- Durable die-cast aluminum housing for durability and long life
- Supplied with three-wire grounded cord and plug and PTFE-coated stir bar
- For 120V 60Hz

### COMPLIANCE:

CSA approved

### WARRANTY:

Three years



Cat. No.	Dimensions (L x W x H)	Surface Area (English)	Price
<b>Hotplates</b>			
<b>S50462CH</b>	8.25 x 5.25 x 4.38 in. (21 x 13 x 11.1cm)	4 x 4 in.	493.75/Ea
<b>S504631H</b>	11.5 x 8.5 x 4.5 in. (29.2 x 21.2 x 11cm)	7 x 7 in.	525.00/Ea
<b>Hotplates/Stirrers</b>			
<b>S50466CSH</b>	8.25 x 5.25 x 4.38 in. (20.9 x 13 x 11.12cm)	4 x 4 in.	677.50/Ea
<b>S50467CNSH</b>	11.5 x 8.5 x 4.5 in. (29.21 x 21.59 x 11.43cm)	7 x 7 in.	676.25/Ea
<b>Stirrers</b>			
<b>S504503AS</b>	8.5 x 5.25 x 4.38 in. (21.6 x 13.3 x 11.1cm)	4 x 4 in.	400.00/Ea
<b>S504501AS</b>	11.5 x 8.5 x 4.5 in. (29.2 x 21.6 x 11.4cm)	7 x 7 in.	461.25/Ea

## fisherbrand Isotemp™ Hotplates

Experience exceptional safety and temperature performance for your routine protocols.

Available in three sizes, providing flexibility from microscale chemistries to production operations.

### Advanced technology

- Strong magnetic coupling
- Temperature adjustable in 1 degree increments
- HOT TOP warning system designed to protect from accidental burns with prominent display when heating surface is above 50°C (122°F)
- Automatic over-temperature protection

### Flexible, robust design

- Top plate choices in ceramic or aluminum
- Raised display design protects electronics from spills
- Optional temperature probe and splash guard protection shield
- Variable sizes for different sample volumes
- For 110/120V 60Hz

### INCLUDES:

- Stirring hotplates (S28663, S28665) include stir bar.

### WARRANTY:

Three years



Cat. No.	Description	Price
<b>S28662</b>	Hotplate, 7.25 x 7.25 in.	392.50/Ea
<b>S28663</b>	Stirring Hotplate, 7.25 x 7.25 in.	608.75/Ea
<b>S28664</b>	Hotplate, 10.25 x 10.25 in.	656.25/Ea
<b>S28665</b>	Stirring Hotplate, 10.25 x 10.25 in.	748.75/Ea
<b>S14365</b>	Ceramic Top, 7.25 x 7.25 in.	578.75/Ea

## fisherbrand Isotemp™ Advanced Stirring Hotplate

Ideal for nucleic acid and protein hybridizations; eliminate need for water baths and heat sealers

### Intuitive design

- Top plate choices in ceramic or aluminum
- Raised display design protects electronics from spills
- Ability to set programs (ramp/dwell) as well as save settings
- Includes stainless-steel PT100 temperature probe, stir bar, supporting rod and clamp kit
- Optional splash guard protection shield

### Advanced technology

- StirTrac features innovative engineering for slow-speed stirring, consistent speed control, and stronger magnetic coupling
- HOT TOP warning system designed to protect from accidental burns with prominent display when heating surface is above 50°C (122°F)
- Temperature adjustable in 1°C increments except when using temperature probe then ability to control in 0.1 degree increments below 100°C



Cat. No.	Description	Price
S28482	Ceramic, 100-120V 50/60Hz US style plug	1063.75/Ea

## Thermo Scientific™ Cimarec™ Basic Stirring Hotplates

Combine performance and economy with the sleek, rugged design of these basic stirring hotplates, ideal for general-purpose stirring at speeds up to 2500rpm.

### FEATURES:

- Maximum temperature reached in under 8 minutes
- Control knobs allow precise temperature and speed control
- Solid ceramic top plate cleans easily, resists acids and alkalis
- New top-plate design reduces chance of breakage
- Spillaway design diverts spills away from internal components
- Integral ring-stand holder accommodates 0.5 in. (1.3cm) diameter support rod
- For 120V 60Hz
- Hotplates heat from 150° to 538°C
- Stirrers speed from 1000 to 2500rpm

### INCLUDES:

- TFE-coated stir bar

### WARRANTY:

Three years

Cat. No.	Description	Price
S28653	Hotplate, 4.25 × 4.25 in.	242.00/Ea
S28654	Stirrer, 4.25 × 4.25 in.	264.00/Ea
S28655	Stirring Hotplate, 4.25 × 4.25 in.	402.00/Ea
S28656	Hotplate, 7.25 × 7.25 in.	261.00/Ea
S28657	Stirrer, 7.25 × 7.25	445.00/Ea
S28658	Stirring Hotplate, 7.25 × 7.25 in.	433.00/Ea



## Thermo Scientific™ Cimarec+™ Hotplates and Stirring Hotplates Series

Get precise stirring control, exceptional safety and temperature performance for your routine protocols.

Our new Thermo Scientific™ Cimarec+ hotplate series offers precise stirring control, exceptional safety and temperature performance for your routine protocols. The Cimarec+ Series are available in three sizes, providing flexibility from microscale chemistries to production operations.

### Advanced technology

- Stir-Trac features innovative engineering for slow-speed stirring, consistent speed control, and strong magnetic coupling
- Temperature adjustable in 1 degree increments
- Hot Top warning system protects from accidental burns with prominent display when heating surface is above 50°C (122°F)

### Flexible, robust design

- Top plate choices in ceramic or aluminum
- Easy-to-read LED display for heating and stirring except for 4x4 has heating display only
- Raised display design protects electronics from spills
- Optional temperature probe and splash guard protection shield
- Variable sizes for different sample volumes
- For 120V



Cat. No.	Description	Top Plate Size	Price
S28874	Ceramic Hotplate	4 × 4	278.00/Ea
S28875	Ceramic Stirring Hotplate	4 × 4	427.00/Ea
S28877	Aluminum Stirring Hotplate	7 × 7	501.00/Ea
S28432	Ceramic Hotplate	7 × 7	302.00/Ea
S28433	Ceramic Stirring Hotplate	7 × 7	527.00/Ea
S28878	Ceramic Hotplate	10 × 10	451.00/Ea
S23627	Ceramic Hotplate	10.25 × 10.25	691.00/Ea

## Thermo Scientific™ RT Touch Series Magnetic Stirrers

Low-profile digital display stirrer — ideal for routine stirring applications.

Strong magnetic coupling ensures consistent stirring during experimental procedures.

Gradual start-up stirring prevents splashing.

- Digital control
- Designed for stir rod support
- Low profile, lightweight design with small footprint
- Available in two sizes
- Speed Control: 30 to 2000rpm

### INCLUDES:

Two nonslip silicone plate covers



## Thermo Scientific™ RT Basic Series Magnetic Stirrers

Plug and play simplicity — ideal for routine stirring applications.

Strong magnetic coupling ensures consistent stirring during experimental procedures.

- Three size options
- Low profile, lightweight design with small footprint
- Speed Control: 150 to 2500rpm

### INCLUDES:

Two nonslip silicone plate covers



### Specifications

<b>Certifications/Compliance</b>	CE
<b>Plug Type</b>	US plug
<b>Speed</b>	150 to 2500rpm
<b>Voltage</b>	100-240V
<b>Electrical Requirements</b>	100 — 240V 50/60Hz
<b>Hertz</b>	50/60Hz
<b>Material</b>	Polypropylene
<b>Motor Type</b>	Brushless DC motor
<b>Warranty and Service Offering</b>	2 Years

Cat. No.	Dimensions (L x W x H)	Wattage	Outside Diameter (English)	Price
<b>S07977S</b>	5.12 x 5.12 x 2.56 in. (130 x 30 x 65mm)	5W	4.72 in.	189.00/Ea
<b>S07978S</b>	7.28 x 7.28 x 2.56 in. (185 x 185 x 65mm)	6W	6.69 in.	224.00/Ea
<b>S07979S</b>	9.06 x 9.06 x 2.56 in. (230 x 230 x 65mm)	6W	8.66 in.	302.00/Ea

### Specifications

<b>Certifications/Compliance</b>	CE
<b>Plug Type</b>	US plug
<b>Speed</b>	30 to 2000rpm
<b>Voltage</b>	100-240V
<b>Wattage</b>	6W
<b>Electrical Requirements</b>	100 — 240V 50/60Hz
<b>Hertz</b>	50/60Hz
<b>Material</b>	Polypropylene
<b>Warranty and Service Offering</b>	2 Years

Cat. No.	Dimensions (L x W x H)	Outside Diameter (English)	Price
<b>S08003S</b>	11.02 x 8.27 x 2.82 in. (280 x 210 x 72mm)	6.69 in.	378.00/Ea
<b>S08004S</b>	14.17 x 10.24 x 2.82 in. (360 x 260 x 72mm)	8.69 in.	421.00/Ea

## Thermo Scientific™ RT2 Hotplate Stirrers

Low-profile hotplate stirrer

- Hot top warning indicator
- Built-in temperature shut-off at 450°C
- User-configurable temperature limit setting
- Temperature Range: 50° to 350°C
- Aluminum body
- 120V, 60Hz, US plug
- Capacity: 20L
- 600W
- Nonslip heating bath (optional)
- Transparent safety shield (optional)

### Basic Hotplate Stirrer

- Analog display
- Speed: 50 to 2000rpm
- Supporting rod (optional) for flexibility in configuring test equipment and accessories

### Advanced Hotplate Stirrer

- Digital control with PT100 sensor
- Microprocessor PID temperature control

- Three user-selectable temperature control modes: Optimal Mode, Fast Mode, and Slow Mode
- Two-user selective timer to display actual and set value simultaneously
- Speed: 30 to 2000rpm
- Temperature probe provides real-time media temperature detection.

### WARRANTY:

Two years

### CERTIFICATIONS/COMPLIANCE:

CE, cCSAus



Cat. No.	Description	Price
<b>S08001HS</b>	Basic Hotplate Stirrer	701.00/Ea
<b>S08002HS</b>	Advanced Hotplate Stirrer	916.00/Ea



## Thermo Scientific™ Utility Hotplate

Durable hotplate heats rapidly and maintains constant temperature.

Stepless temperature control accurate to  $\pm 3^{\circ}\text{C}$  ( $\pm 37.4^{\circ}\text{F}$ ) over temperature range.

- Temperature range: 38° to 371°C (100° to 700°F)
- Demand-type thermostat gives fast heatup by utilizing full power until the set temperature is reached, then cycles to hold the temperature

- Embedded heating elements
- Baffled, welded stainless-steel housing
- Top plate dimensions: 6.4L x 6.4 in.W (15.9 x 15.9cm)
- Overall dimensions: 7.8L x 6.7W x 4.4 in.H (19.5 x 16.8 x 11cm)

**ORDERING INFORMATION:**  
For 120V 50/60Hz, 6.2A

**CERTIFICATIONS:**  
UL listed



Cat. No.	Description	Price
S50429Q	Utility Hotplate	452.00/Ea

## Corning™ Hotplates with Digital Displays

Digital displays provide easy-to-read LED temperature.

Digital temperature display is adjustable in 5° increments and indicates when set temperature has been achieved. Microprocessor-controlled feedback technology maintains consistent repeatable temperature.

- Bright LED icons for POWER and HOT TOP light up when top plate is over 60°C (140°F)
- Separate temperature sensor provides power cutoff if unit overheats
- Small footprint and a low profile conserve lab space
- Fit comfortably inside hoods or storage cabinets
- Glass-ceramic Pyroceram™ top cleans easily and resists scratches, corrosion and chemicals
- Two-piece casing deflects spills away from internal components
- Built-in support-rod mount for temperature probe

- Heating range: 5° to 550°C (41° to 1022°F)
- Electrical requirements: 120V 60Hz

**WARRANTY:** Two years

**CERTIFICATIONS:** UL listed



Cat. No.	Description	Size	Price
<i>5 x 7 in. Ceramic Top Plate</i>			
S90870A	Hotplate	5 x 7 in.	347.00/Ea
S90870B	Stirrer	5 x 7 in.	413.00/Ea
S90870C	Hotplate/Stirrer	5 x 7 in.	601.00/Ea
<i>10 x 10 in. Ceramic Top Plate</i>			
S90870D	Hotplate	10 x 10 in.	579.00/Ea
S90870E	Stirrer	10 x 10 in.	653.00/Ea
S90870F	Hotplate/Stirrer	10 x 10 in.	778.00/Ea

## Corning™ Hotplates, Hotplate/Stirrers and Stirrers

Rugged units are designed for convenience, safe operation and chemical resistance.

- Microchemistry-sized, space-saving design with low profile fits benchtops and hoods easily
- Microprocessor electronics and extra-large knobs with numbered markings provide superb heating and/or stirring control
- High-visibility glass-ceramic Pyroceram™ top cleans easily and resists scratches, corrosion and chemicals
- Bright LED lights allow user to see operating status at a glance
- Enclosed electronics design protects components and prolongs product life
- Two-piece casting deflects spills away from internal components
- Built-in support rod mount for thermometer, electrode, or buret
- Surface area: 10.2 x 12.7cm (4 x 5 in.)
- For 120V 50/60Hz



### Heating FEATURES:

- Top provides fast uniform heating
- Temperature Range: 25° to 550°C (77° to 1022°F)
- Microprocessor ensures minimum heat-up times for samples by supplying maximum power to the heating elements when cold
- HOT TOP indicator warns when top surface is  $>60^{\circ}\text{C}$  ( $>140^{\circ}\text{F}$ ), even when unit is shut off

### Stirring FEATURES:

- Stirring range: 60 to 1100rpm
- Long-life motor
- Microprocessor automatically adjusts motor strength to any solution

### INCLUDES:

Comprehensive instruction manual

**WARRANTY:** Two years

### ⚠️ ALERTS:

Products in this grouping may have voltages other than the standard US 110/115V. Please review and confirm your selection before completing your order. Some of these products may not be returned.

### COMPLIANCE:

Meet UL, CUL, IEC 1010, CE/ GS standards

**CERTIFICATIONS:** UL Listed

Cat. No.	Dimensions (L x W x H)	Description	Price
S50442HP	4.4 x 5.8 x 7.3 in. (11.17 x 14.73 x 18.54cm)	Hotplate	309.00/Ea
S50446HP	4.4 x 5.8 x 7.3 in. (11.17 x 14.73 x 18.54cm)	Stirrer/Hotplate	585.00/Ea

## Corning™ Scholar™ PC-170 Hotplate

- Economical and efficient choice for classroom heating needs
- Compact 5 × 5 in. design minimizes wasted bench space
- Features a white enameled steel top for maximum heat conduction
- Operates on 120V/60Hz to meet needs in North America and other locations with similar requirements
- Dual heat shields ensure the outer case remains cool to the touch
- UL/CUL approved
- One-year warranty
- Temperature range: 25° to 360°C (77° to 672°F)

Cat. No.	Description	Price
S50441	Hotplate	195.00/Cs

### Hotplate Accessories

## Ohaus™ Support Rod and Clamp Kit

For holding temperature probes, thermometers or other glass tubes.



- For all Hotplates or Hotplate-Stirrers
- Includes an 45.7cm (18 in.), Stainless-steel support rod, thermometer/temperature probe extension clamp, 3-prong medium swivel clamp and hook connector

**COMPLIANCE:** UL, cUL, CE marked

Cat. No.	Description	Price
S38771	Support Rod and Clamp Kit	146.00/Ea



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## fisherbrand Soft Glass Rods

With rounded and fire-polished ends.

- Constructed of glass
- A stirring rod is used to mix chemicals and liquids for laboratory purposes



Cat. No.	Diameter (English)	Diameter (Metric)	Length (English)	Length (Metric)	Price
S63450	0.23 in.	6mm	9.84 in.	250mm	53.75/Pk
S63449	0.19 in.	5mm	7.87 in.	200mm	32.75/Pk

## United Scientific™ Stirring Rods with Rubber Policeman

Glass stirring rods are supplied with rubber policemen already attached.



Used to help transfer residues of precipitates or solids from the inside of beakers, flasks or other glass surfaces

Cat. No.	Diameter (English)	Diameter (Metric)	Length (English)	Length (Metric)	Price
S66002	0.19 in.	5mm	8 in.	203mm	12.50/Pk
S66003	0.23 in.	6mm	10 in.	254mm	18.50/Pk

## Fisher Chemical™ Hengar Granules

- Plain, not selenized
- 500g
- Clear bottle

Cat. No.	Description	Price
S145-500	Hengar Granules	106.00/Ea

Ice Makers & Refrigerators

### fisherbrand Isotemp™ Value Lab Refrigerator

For safe, reliable storage of non-critical products.

- Adjustable temperature control
- Hinged, reversible door with lock opens left to right
- R134a, 100% CFC free refrigerant
- Manual defrost
- Adjustable shelves or baskets included
- Environmentally friendly, CFC-free insulation and coolant
- Casters: 2 adjustable feet in front, 2 fixed pads in rear
- Easy-to-clean, durable white enameled steel finish
- Interior made of ABS plastic
- 115V/60Hz, 1.0A 160w
- Weight: 100 lb. (45.4kg)
- NEMA 5-15P plug type
- Factory tested prior to shipment
- NRTL tested

**Service Plan**

- Service agreement available.

**CERTIFICATIONS**

- cCSAus

**WARRANTY AND SERVICES**

- 13 months, parts and labor



Cat. No.	Capacity	Dimensions (L x W x H) Exterior	Dimensions (D x W x H) Interior	Temperature Range	Price
S35949	5.5 cu. ft./155.7L	23.5 x 23.63 x 33.5 in. (59.7 x 60 x 85.1cm)	17.5 x 20 x 27.75 in. (44.55 x 50.8 x 70.5cm)	1° to 12°C	1828.00/Ea

### fisherbrand Isotemp™ Value Lab Freezer

Convenient storage in small spaces.

- Manual defrost
- Hinged, reversible door opens left to right
- R-134a CFC-free refrigerant
- Hydraulic thermostat
- Casters: 2 Adjustable Feet in front, 2 Fixed Pads In Rear
- Baked-on, acrylic enamel exterior
- Easy-to-clean formed ABS Plastic interior
- Solid door is mounted to open from left
- Temperature Range: -12° to -24°C
- 115 V/60 Hz, 1.1A 184w
- Weight: 84 lb. (38kg)
- NEMA 5-15P plug type



**WARRANTY AND SERVICES**

- Two years parts, one year labor

Cat. No.	Capacity	Dimensions (L x W x H) Exterior	Dimensions (D x W x H) Interior	Price
S35948	5 cu. ft./ 141.6L	25.88 x 23.75 x 33.38 in. (65.7 x 60.3 x 84.8cm)	20.25 x 18 x 26 in. (51.4 x 45.7 x 66cm)	1800.00/Ea

### Scotsman™ Prodigy™ Undercounter Cuber with 80 lbs. Storage

Make and store ice at a convenient level. The CurranTrade™ Scotsman™ Prodigy™ Undercounter Cuber with 80 lbs. Storage uses energy efficiently and breathes in and out of the front; no need to allow space at the side or back for air circulation.

- AutoAlert™ control panel communicates operating status and need for upkeep
- The patented WaterSense adaptive purge control delivers maximum reliability by reducing scale buildup for a longer time between cleanings
- Stainless steel external panels
- Easily-removed door, top panel and storage bin allowing clear access to all internal components
- A diagnostic code display insuring the right fix the first time and user-friendly front removable cleanable air filter are standard equipment
- 80 lbs. of storage at a convenient level
- Breathes in and out the front. No need to allow space at side or back for air circulation
- Cat. No. 09-540-121 filter package recommended
- 24 Hour Volume Production: 200 lbs. (or 155 lbs. ARI) air-cooled, 240 lbs. (or 190 lbs. ARI) water-cooled



Cat. No.	Description	Price
S28642	Undercounter Cuber	5651.00/Ea

## Ice-O-Matic Self-Contained Undercounter Pearl Ice™ Maker with Storage

Use up to 40% less energy and 50% less water than standard cube ice machines. The CurranTaylor™ Ice-O-Matic Self-Contained Undercounter Pearl Ice™ Maker with Storage outputs bits of compacted flaked ice that are soft, long-lasting and conform to samples—even microcentrifuge tubes.

- Uses up to 40% less energy and 50% less water than standard cube ice machines
- Produces up to 85 lbs. of Pearl Ice in 24 hours and stores up to 22 lbs. of ice
- Front air flow and an ultra compact 15 in. wide cabinet for placement in tight locations or free standing
- Stainless steel finish—perfect for laboratory or clinical use
- User-friendly control panel informs whether in ice making mode, alerts a no-water condition, and a time-to-clean reminder
- Approved for outdoor applications
- Reversible swing door
- Optional built-in drain pump allowing for installation flexibility and minimized installation costs
- “Pearl Ice”: Small, random lengths from 1/4 in. to 1/2 in. pack tightly and cool quickly
- For labs, offices and break rooms, medical suites, R & D, athletic departments
- Cat. No. 09-540-121 filter package recommended
- 115V 60Hz
- Weight: 133 lb. (60kg)

### WARRANTY:

2 year parts and labor on all components

### COMPLIANCE:

NSF

### CERTIFICATIONS:

ISO 9001:2000, AHRI, ETL



Cat. No.	Description	Price
S28646	Undercounter Pearl Ice Maker	4619.00/Ea

## Scotsman™ Modular Flaked Ice Maker and Storage Bin

Utilize a higher capacity and more efficient design. The Scotsman™ Modular Flaked Ice Maker and Storage Bin delivers a steady flow of ice for fast recovery of ice supply.

Dependable Ice Maker performs under most any conditions

- Continuous ice-making process—no harvest time delays
- Up to 66% more energy efficient than cube models
- Delivers steady flow of ice for fast recovery of ice supply
- Only one moving part under refrigeration
- Higher capacity for larger volume and shared users
- 22 in. wide model saves valuable floor space
- Double-flight auger evenly distributes the load while heavy-duty direct-drive gearbox provides high reliability and long life
- AutoSentry™ Monitoring System constantly checks workload on gearbox, shutting down system before a problem develops
- Freezing chamber clearing delay permits drive motor to start with no load
- Electric conductivity water sensor eliminates low- or no-water failures and cannot be affected by adverse water conditions
- Use multiple units side-by-side
- Stainless-steel construction
- Manufactured in an ISO9001:2000 approved facility
- 31D × 73" H
- 115V 60Hz

### Big storage bin for ample ice reserve

- Holds 374 lb.
- NSF approved construction
- Attractive stainless-steel finish
- Polyethylene liner

For new machine installations, order optional Cat. No. 09-540-121 Water Filter Package and Cat. No. 09-540-115 Install Kit.

### WARRANTY:

Three years parts and labor on all components; five years parts on compressor

### CERTIFICATIONS:

UL/ULC listed, National Sanitation Foundation approved



Cat. No.	Description	Price
S28640	Flaked Ice Maker and Storage Bin	8701.00/Ea



## fisherbrand Ice Buckets

Ideal for use with dry ice, water ice and salt solutions.



- Molded handles enable safe handling and transport
- Rigid construction provides high durability and excellent insulating properties
- Buckets will not sweat or leak and are unbreakable with normal use
- Withstand temperatures up to 95°C (203°F)
- Resistant to acetone and easy to clean — can be chemically disinfected
- Stackable for convenient storage
- Rim diameter (maximum, with handles): 12.75 in. (32.5cm)
- Height: 7.25 in. (18.5cm)
- Capacity: 1.2 gal. (4.5L)

Cat. No.	Color	Price
S66360	Red	136.00/Ea
S66126	Blue	136.00/Ea

## Cryo-Safe™ Cold Box

Made of molded polystyrene. Bel Art™ SP Scienceware™ Cryo-Safe™ Cold Box. Has an internal 12-place support for 1.5 ml microcentrifuge tubes.

When container is taken out of a -20°C (-4°F) freezer, it maintains a -15°C (-5°F) temperature for 1.5 hours, and will remain below 0°C (32°F) for four hours.

- Consists of a molded polystyrene container with cover
- Internal 12-place support for 0.05 oz. (1.5mL) microcentrifuge tubes



Space surrounding tubes is filled with a sealed-in material to maintain the low temperature required

Cat. No.	Description	Price
S90150	Cryo-Safe Cold Box	65.00/Ea

## GSC Go Science Crazy Cryogenic Vials

Cryogenic Vials are used for storing biological samples at extreme temperatures

### INCLUDES:

Leak-proof silicone rubber lined caps, Printed graduations, White labeling area



Cat. No.	Description	Price
S39021	1.8mL	78.00/Pk
S39022	5mL	50.00/Pk

## GSC Go Science Crazy Cryogenic Boxes

Cryogenic Box is made from tough plastic and intended to hold cryogenic vials

- White polypropylene



Cat. No.	Capacity	Dimensions (L x W x H)	Price
S39023	81 1.8-mL cryogenic vials	6 x 6 x 6in.	18.25/Ea
S39024	36 5-mL cryogenic vials	8 x 8 x 8in.	20.00/Ea

## Magic Touch 2™ Ice Buckets

Superior insulating properties combined with high chemical resistance.

- Compatible not only with wet ice, but also with ultra-low temperature materials including dry ice, salt slurries, dry ice solvent slurries or liquid nitrogen
- Able to withstand a wide temperature range of -196°C (-320°F) to 100°C (212°F)
- High-quality, expanded urethane laboratory ice buckets are lightweight, durable, nonsweating and impervious to moisture and odors
- Convenient pour spout, drip-proof rims, a fill line indicator
- Snug-fitting keyed lid and base for easy stacking
- Lightly textured, nonslip finish and raised edge provides secure transport and a stylish look



Cat. No.	Capacity	Color	Height (Metric) With Closure	Price
S04558	2.5L	Black	17.9cm	107.00/Ea
S04556	2.5L	Blue	17.9cm	106.00/Ea
S04560	2.5L	Green	17.9cm	107.00/Ea
S04559	4L	Black	22.86cm	111.00/Ea
S04557	4L	Blue	22.86cm	111.00/Ea
S04561	4L	Green	22.86cm	111.00/Ea

## Fisher Science Education Digital Imaging Systems

**Ideal for high school and college classrooms, these microscopes combine the camera and computer into one seamless solution.**

- Reliable, long-lasting LED illumination
- Four-turret nosepiece with 4X, 10X, 40X, and 100X oil objectives
- Coaxial fine and coarse focus
- Smooth, accurate mechanical stage
- Rugged, durable metal construction
- 8 in. touchscreen display
- CMOS camera
- USB and HDMI outputs
- Lifetime limited warranty

**Catalog Numbers: S72568, S72556, S72557, S72558, S72559**



## Fisher Science Education High School Stereo Microscopes

**Multi-directional stereoscopic microscopes with easy-to-use button control ideal for macro-size specimens in high school and college classrooms.**

- Eco-friendly and energy-efficient LED illumination
- Magnification: 10X to 40X (1X and 3X or 2X and 4X objectives)
- Zoom range: 1X to 4X
- 10X eyepiece
- Binocular or trinocular inclined tube (60°)
- Coarse focus with 160mm working distance
- Low-profile stage with clips
- Pole stand
- Lifetime limited warranty

**Catalog Numbers: S72567, S72599, S72600, S72601, S72602, S72609**



## Fisher Science Education High School Upright Microscopes

**Simple, easy-to-use microscopes ideal for educational use in high school and college classrooms.**

- Eco-friendly and energy-efficient LED illumination
- Four-turret nosepiece with 4X, 10X, 40X, and 100X oil objectives
- 10X eyepiece
- Coaxial fine and coarse focus
- Smooth, double-layer mechanical stage
- Monocular, binocular, or trinocular head with 360° rotation
- Abbe condenser, NA 1.25 with iris diaphragm and filter holder
- Durable metal construction with convenient carrying handle
- Lifetime limited warranty

**Catalog Numbers: S72529, S72530, S72531, S72532, S72533, S72534, S72535, S72552, S72553, S72582, S72583, S72584, S72585, S72586, S72587, S72588, S72611, S72612, S72613, S72614, S72615, S72616**



## Fisher Science Education Middle School Upright Microscopes

**Simple and easy-to-use, these microscopes are ideal for middle and high school classrooms.**

- Eco-friendly and energy-efficient LED illumination
- Three-turret nosepiece with 4X, 10X, 40X, and 100X objectives
- 10X eyepiece
- Fine and coarse focus
- Smooth, accurate mechanical stage
- Rugged, durable metal construction with convenient carrying handle
- Adjustable monocular and binocular head with 360° rotation
- Lifetime limited warranty

**Catalog Numbers: S72540, S72573, S72574, S72575, S72576, S72577, S72578, S72579, S72580, S72581, S72606, S72610**



## Fisher Science Education Middle School Stereo Microscopes

**Multi-directional stereoscopic microscopes with easy-to-use button control ideal for macro-size specimens in middle and high school classrooms.**

- Eco-friendly and energy-efficient LED illumination
- Fixed dual magnification with 1X and 3X or 2X and 4X objectives
- 10X eyepiece
- Binocular inclined tube (60°)
- Coarse focus with 160mm working distance
- Low-profile stage with clips
- Pole stand
- Lifetime limited warranty

**Catalog Numbers: S72603, S72604, S72605**



## Fisher Science Education Elementary School Upright Microscopes

**Small, rugged, and lightweight, these microscopes are ideal for elementary and middle school classrooms.**

- Eco-friendly and energy-efficient LED illumination
- Three-turret nosepiece with 4X, 10X and 100X objectives
- 10X eyepiece
- Fine and coarse focus
- Plain stage with side clips
- Abbe condenser, NA 1.25 with iris diaphragm
- Durable metal construction with convenient carrying handle
- Lifetime limited warranty

**Catalog Number: S72569**



## Fisher Science Education Elementary School Stereo Microscope

**Basic, stereoscopic microscopes for macro-size specimens ideal for elementary and middle school classrooms.**

- Eco-friendly and energy-efficient LED illumination
- Fixed dual magnification with 1X and 3X or 2X and 4X objectives
- 10X eyepiece
- Binocular inclined tube (45°)
- Coarse focus with 57mm working distance
- Low-profile stage with clips
- Pole stand
- Lifetime limited warranty

**Catalog Number: S72589**





## Laxco™ LMC-1000 Biological Microscopes

These compound microscopes are ideal for high school and college classrooms.

- Eco-friendly and energy-efficient LED illumination
- 4X, 10X, 40X, and 100X objectives with brightfield options
- 10X eyepiece
- Coaxial fine and coarse focus
- Abbe condenser, NA 1.25 with iris diaphragm
- Color-coded carrying handle
- External DC power supply with rechargeable battery
- Lifetime limited warranty

**Catalog Numbers: S72293, S72292, S72288, S72276**

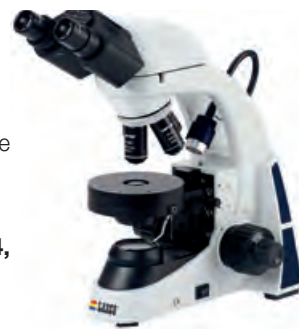


## Laxco™ LMC-1000 Macro-Micro Microscopes

Ideal for high school and college classrooms, these microscopes combine stereo and compound capabilities into one single solution.

- Dual-powered, eco-friendly, and energy-efficient LED illumination
- 2X (for macro imaging), 4X, 10X, and 40X objectives
- Coaxial fine and coarse focus
- Abbe condenser, NA 1.25 with iris diaphragm
- Color-coded carrying handle
- External DC power supply with rechargeable battery

**Catalog Numbers: S72294, S72291, S72290, S72289, S72284, S72275**



## Laxco™ SeBa 2 Digital Microscope Systems

Designed for instructional use, these microscopes combine integrated digital technology and high-performance optics so that you can capture, review, measure, and annotate still or live images. Then, upload the images using SeBaShare cloud-based storage to share.

- Reliable, long-lasting LED illumination with removable cartridge
- Full Koehler illumination with field diaphragm
- Three-turret nosepiece with 4X, 10X, 40X, and 100X objectives
- 10X eyepiece
- Four USB ports for data transfer
- Abbe condenser, NA 1.25 with iris diaphragm
- 9.7 in. touchscreen retina display and color CMOS camera (5MP)
- Single power source for the camera, computer, and microscope
- Rugged, durable metal construction with convenient carrying handle

**Catalog Numbers: S72274, S72273, S72272**



## Laxco™ LMI-3000 Series Inverted Microscopes

**Compact, easy-to-use tissue culture microscopes ideal for high school or college classrooms.**

- Eco-friendly and energy-efficient LED illumination with removable cartridge
- Three-turret nosepiece with 4X, 10X, 20X, and 40X objectives
- 10X eyepiece
- Binocular with photo port for attaching camera
- Observation angle: 45°
- Diopter adjustments
- Fine and coarse focus
- Large, flat stage (x- and y-axis options available)
- Fixed Abbe condenser
- Durable metal construction
- Lifetime limited warranty

**Catalog Numbers: S72295, S72296, S72297**



## Laxco™ LMC-3000 Series Upright Biological Microscopes

**These microscopes offer powerful, versatile features for education, clinical, and research applications.**

- Eco-friendly and energy-efficient LED illumination
- Full Koehler illumination with field diaphragm
- Brightfield, phase contrast, polarization, darkfield, and fluorescence options
- Binocular or trinocular options
- Fine and coarse focus
- Abbe condenser, NA 1.25 with iris diaphragm
- Rugged, durable metal construction with convenient carrying handle
- X/Y mechanical stage

**Catalog Numbers: S72282, S72281, S72278, S72277, S72270, S72271, S72268, S72269**



Microscopes

## Swift™ M3601C-USB Compound Microscope Digital Camera Package

Features cordless, energy-efficient LED illumination and a student-friendly design.

- For 120V 60Hz

**M3601C-USB features:**

- **Model:** D-Moticam 2
- Live, digital output
- Detachable USB cable
- Feature-packed Motic Images Plus software

**M3601C-WF2 features:**

- **Model:** D-Moticam X3
- **Digital Interface:** WiFi RJ45 Port
- Generates own WiFi signal
- Can be viewed on IOS and Android devices
- 1.3 MP live resolution
- Feature-packed Motic Images Plus software



Cat. No.	Description	Price
S43541	M3601C-USB Compound Microscope Digital Camera Package	787.00/Ea
S43542	M3601C-WF2 Compound Microscope Digital Camera Packag	912.00/Ea

## Swift™ SM105T-C-USB Zoom Stereo Microscope Digital Camera Package

Features microscope with variable zoom magnification range of 10X to 30X and Moticam 2.0 MP digital camera.

**Microscope features:**

- Energy-efficient variable, cordless, rechargeable illumination
- One-touch spring loaded stage clips
- Right eyepiece diopter focusing adjustment
- For 120V 60Hz

**Camera features:**

- **Model:** D-Moticam 2
- **Digital Interface:** USB
- Live, digital output
- Detachable USB cable
- Feature-packed Motic Images Plus software



Cat. No.	Description	Price
S43540	Zoom Stereo Microscope Digital Camera Package	1091.00/Ea

## Swift™ M2250 Series Microscopes

Compound student microscope designed specifically for intermediate-level microscopic applications.

- Monocular
- Inclined, smooth-moving 360° rotatable body provides comfortable viewing
- Illuminator vents assure “cool” illumination
- Separate coarse and fine focus system is easy to repair
- Hard, all-metal bottom plate protects electrical sources against damage and students’ hands from electrical shock
- Locked-on eyepiece, objectives, and stage clips
- Slip-clutch protects against over-focusing
- Corded models have cord-hanger for neat and easy method of cord containment

- Plastic shield protects delicate iris diaphragm from damage
- LED illumination produces cool, white light that lasts up to 50,000 hours
- Cordless model offers 50 hours of continuous use with a single eight-hour charge
- 4X, 10X, 40XR DIN objectives assure superior optical clarity
- For 120V 60Hz

**WARRANTY:**

Limited lifetime warranty on all defective parts and workmanship



Cat. No.	Diaphragm	Includes	Lighting Type	Price
S67300A	Iris	Cool and efficient LED illumination with dimmer switch and American plug, user and care manual, dust cover	LED	290.00/Ea
S65202	Disc	Standard Tungsten illumination and American plug, user and care manual, dust cover	Tungsten	279.00/Ea
S67300	Iris	Cool and efficient cordless LED illumination, User and care manual, dust cover	LED	319.00/Ea

## Swift™ M10D Series Digital Microscopes with High-Resolution Camera

Built-in, high-resolution 3 MP camera displays live images and captures pictures at 2048 × 1536 resolution.

- Binocular head available with semi-plan, plan or multi-phase objectives (4XD, 10XD, 40XRD, 100XRD)
- Internal camera allows use of eyepiece at the same time as camera
- Illuminated by a corded LED system with dimmer switch
- USB output provides a direct connection to computer
- Built-in low-drive mechanical stage
- Abbe 1.25 DIN rack and pinion condenser, iris diaphragm
- 20mm eyepiece

### INCLUDES:

Motic Images Plus imaging software. Software is Windows™ XP™, Vista™ compatible and Mac™ OSX™ compatible.

### WARRANTY:

Limited lifetime warranty on microscope and one year limited on camera.



Specifications	
Axis Type	Coaxial coarse and fine
Camera Type	3MP 2048 x 1536 pixel high resolution digital
Condenser Type	1.25 DIN Abbe rack and pinion
Design Type	Mechanical
Diaphragm	Iris
Eyepiece	W10XD, 20mm
Head Style	Binocular
Height (English)	14.25 in.

Specifications	
Height (Metric)	36.9cm
Includes	Motic™ images plus software
Lighting Type	3w LED with dimmer switch
Port Type	USB
Software Type	Motic
Voltage	110/220V
Warranty	Lifetime
Weight (English)	30.9 lb.
Weight (Metric)	14kg

Cat. No.	Magnification Power	Objective Types	Price
S95264J	4xD, 10xD, 40xRD, 100xRD plan	4xD, 10xD, 40xRD, 100xRD plan	1889.00/Ea
S95264H	4xD, 10xD, 40xRD 100xRD semi plan	4xD, 10xD, 40xRD 100xRD semi plan	1760.00/Ea

## Swift™ M3800 Series Advanced Microscope

Brand-new design packed with research features, assuring trouble-free operation and minimal downtime.



### Ideal for AP and college environments.

- Advanced, compound, high-resolution optics
- Cordless microscope with plastic iris diaphragm shield
- Built-in battery powered indicator light
- 0.5W LED illumination
- Built-in curved handle design and smooth coaxial focusing
- Eyepiece: W10XD, 18mm

### WARRANTY:

Limited lifetime warranty

Specifications	
Axis Type	Coaxial coarse and fine
Condenser Type	1.25 N.A. Abbe spiral
Design Type	Mechanical
Diaphragm	Iris
Magnification Power	40x, 100x, 400x, 1000x DIN
Objective Types	4x, 10x, 40xR and 100xR
Eyepiece	10X, 18mm widefield
For Use With (Application)	AP and college environments
Height (English)	14.25 in.
Height (Metric)	36.2cm
Includes	Head and frame in molded Styrofoam container with instruction brochure and vinyl dustcover
Lighting Type	0.5W LED illumination
Nosepiece	Reversed
Optical Design	Infinity correct optics
Voltage	110/220V
Warranty	Limited lifetime
Weight (English)	11 lb.
Weight (Metric)	24300g
Width (English)	6 in.

Cat. No.	Head Style	Price
S72240	Binocular	811.00/Ea
S72241	Trinocular	963.00/Ea



## Swift™ M29TZ-SM99CL-BTW1 Digital Screen Stereo Zoom Microscope

Representing the latest in educational, laboratory and research technology, the Swift™ Optical Digital Screen Stereo Zoom Microscope can be used as a conventional stereo microscope or to share live images with your students or colleagues using WiFi tablets, WiFi enabled laptops and HD-ready LCD monitors or projectors through HDMI.

### Microscope FEATURES:

- Viewing head rotates 360°
- Zoom 1X-4X
- Acromatic, color-corrected lenses
- Tension adjustment eliminates focus drift
- Working distance: 80mm
- Large dual focusing knobs with slip clutch to prevent damage to mechanism
- Top and bottom LED illumination
- For 120V 60Hz

### Tablet Specifications:

- Screen Size: 20.3cm (8 in.)
- Screen Resolution: 800 x 1280
- Camera Resolution: 5.0MP
- WiFi: 802.11b/g/n
- Ports: CD 5V Power Input, Mini HDMI, Micro SD Card Slot, 3.5 mm Audio
- HDMI Output: 1080
- Battery: Rechargeable



### Tablet FEATURES:

- Attached camera bracket includes built-in camera to capture still and video clips
- Pre-loaded MotiConnect Apps allow for image capture, annotation and sharing
- USB and WiFi Interfaces
- Built-in MotiHub allows for wireless sharing

Cat. No.	Description	Price
S23870	Digital Screen Stereo Zoom Microscope; Model: M29TZ-SM99CL-BTW1	1599.00/Ea

## Swift™ M3600 Series Compound Microscopes: Monocular

New look and “student proof” design with curved handle, variable LED illumination and rounded stage.

Ideal for high schools and other grade levels.

- One-piece eyetube and illuminator are tamperproof
- Locked-on eyepieces, objectives and spring loaded “one touch” stage clips
- Plastic iris diaphragm shield protects iris
- Slip clutch system protects against over-focusing
- Unique “C-wrench” gives teachers control of focus tension
- Separate coarse and fine focus for easy use, simple servicing and teaching
- Cord holder on corded models provides a neat and easy method of cord containment
- Inward-facing (reversed) nosepiece allows user clear access to stage for slide manipulation
- All-metal internal parts assure long-term durability
- Energy efficient, variable LED provides white light with virtually no heat
- Extra bright LED lasts up to 50,000 hours between replacements for minimum maintenance and downtime
- Rechargeable cordless models allow up to 50 hours of use on a single 8-hour charge
- Optional add-on mechanical stage available for models with standard stage clips
- Lead-free objectives

### WARRANTY:

Limited lifetime warranty on microscopes. One-year limited warranty on camera.



Cat. No.	Condenser Type	Magnification Power	Voltage	Weight (Metric)	Price
S19617G	1.25 N.A. Abbe spiral	4xD, 10xD, 40xRD achromatic	110/220V	23.8kg	479.00/Ea
S19617D	1.25 N.A. Abbe spiral	4xD, 10xD, 40xRD, 100xRD achromatic	110V	23.8kg	525.00/Ea
S19617A	Built-in 0.65 N.A.	4xD, 10xD, 40xRD achromatic	110V	21.6kg	272.00/Ea
S19617C	1.25 N.A. Abbe spiral	4xD, 10xD, 40xRD achromatic	110V	23.8kg	471.00/Ea
S19617E	Built-in 0.65 N.A.	4xD, 10xD, 40xRD achromatic	110/220V	0.3kg	395.00/Ea
S19617H	1.25 N.A. Abbe spiral	4xD, 10xD, 40xRD, 100xRD achromatic	110/220V	23.8kg	535.00/Ea

Specifications	
Axis Type	Coarse and fine
Diaphragm	Iris
Eyepiece	10X, 18mm widefield
Grade	High school and other
Head Style	Monocular
Height (Metric)	36.2cm
Lighting Type	Corded LED with dimmer switch
Nosepiece	3-position reversed
Warranty	Limited lifetime

## Swift™ SM100 LED Stereo Microscopes

Durable, versatile design is ideal for high school and college instruction.

A new look to the Swift Stereo line, the SM100 series offers an affordable stereo microscope with three different binocular head options with varying magnification. A variety of student-proof features make it perfect for teaching applications.

- Energy-efficient variable LED illumination with five light-setting options
- Right eyepiece diopter focusing adjustment
- “One-touch” spring-loaded stage clip
- Built-in handle encourages proper handling
- “Slip-clutch” focusing system protects against over-focusing
- Locked-on eyepieces and stage clips assure that the parts remain on the scope
- Unique C-wrench gives teacher sole control over focus tension
- Cord-hanger allows for safe and hassle-free cord storage
- Corded or cordless stand

- Reversible black-and-white and frosted stage plates are included
- Interlocked eyepiece tubes with diopter for increased focus acuity
- Side magnification changer
- Eyepieces: W10X, 20mm
- Synthetic gear lubricant ensures smooth operation of all gears over a wide range of temperatures
- Eyeshields can be used on eyepieces to reduce ambient light
- Light settings: turret, top, bottom, simultaneous turret and bottom or simultaneous top and bottom



### ORDERING INFORMATION:

Dimensions:  
12L x 8W x 13 in.H  
(30.5 x 20.3 x 33cm)

**WARRANTY:**  
Limited lifetime on all defective parts and workmanship

### Specifications

<b>Axis Type</b>	Rack and pinion with slip clutch
<b>Dimensions (L x W x H)</b>	12 x 7.5 x 12.5 in. (30.5 x 19.05 x 31.75cm)
<b>Head Style</b>	Binocular
<b>Height (Metric)</b>	31.75cm
<b>Includes</b>	Reversible black and white and frosted stage plates, Vinyl dust cover, eyeshields and Instruction manual
<b>Length (Metric)</b>	30.5cm
<b>Lighting Type</b>	LED
<b>Width (Metric)</b>	19.05cm

Cat. No.	Magnification Power	Eyepiece	Product Type	Price
<b>S01977</b>	10x to 30x	W10X, 20mm	Stereo Microscope	595.00/Ea
<b>S01977A</b>	10x, 30x	W10X, 20mm	Stereo Microscope	415.00/Ea
<b>S01977B</b>	20x and 40x	W10X, 20mm	Stereo Microscope	413.00/Ea
<b>S02345A</b>	10x to 30x	W10X, 20mm	Cordless Stereo Microscope	584.00/Ea
<b>S952641</b>	10x to 30x	W10X, 20mm	Cordless Stereo Microscope	432.00/Ea
<b>S952642</b>	20x and 40x	W10X, 20mm	Cordless Stereo Microscope	429.00/Ea

## Swift™ Forensic-Comparison Microscope With Digital Tablet Screen

The Swift Forensic-Comparison Microscope with Digital Tablet Screen represents the latest in digital forensic-comparison applications. You can use it in the classroom as a comparison microscope or with a tablet to share images.

Comparison Microscope includes:

- Trinocular head with port for easy camera attachment
- Micro 4XD, 10XD, 40XRD, and Macro 1X objectives
- 10XD, 18mm eyepieces
- Cordless, Top and Bottom LED illumination
- For 120V 60Hz

### Tablet Specifications:

- LCD Android tablet with 1280 X800 screen resolution, 25.4cm (10 in.)
- Connections: WiFi, mini HDMI, micros SD card slot
- 5.0MP sensor
- 5.0MP capture image resolution
- HDMI 1080
- Android operating system
- WiFi: WiFi output (802.11ab/g/n supporting both hot-spot mode or using existing network)
- Pre-loaded optimized MotiConnect App

Cat. No.	Description	Price
<b>S23869</b>	Model: M3-F-BTW2	3026.00/Ea



- Supplied with Motic Images Plus software for Mac and PC
- Built-in Motic Hub allows for wireless sharing

## Swift™ M3-F Forensic Comparison Microscope

Revolutionary technology allows you to compare images in both micro and macro environments.

Powerful optical system allows images to be seen either 100% from the left microscope, 100% from the right, side-by-side or overlapping. The dedicated macro lens, with a large working distance, allows you to view not only bullets but also larger, more bulky “evidence” items.

- Trinocular head
- Energy-efficient cordless top and bottom LED illumination
- Co-axial focusing
- Gliding stage plate with “one-touch” stage clips
- Balanced tripod footing

- Eyepiece: W10XD, 18mm
- Objectives: 4X, 10XD, 40XRD, micro and 1X macro
- For 120V 60Hz

### ORDERING INFORMATION:

With the optional C-mount adapter, any C-mount-ready imaging device can be attached, including Motic™ cameras, for analysis with the Motic software provided. (Motic software included with the Swift Cam; eyepiece cameras sold separately.)

Cat. No.	Description	Price
<b>S01897</b>	4X, 10XD, 40XRD, micro, 2X macro objectives	2110.00/Ea



## Swift™ M10T-BTW1 Series Digital Tablet Compound Microscopes

Combination of compound microscope with Integrated digital tablet.

- Tablet screen to view and share images live on screen
- Optical and mechanical precision allows for easy use, viewing and durability
- Pre-loaded Motic Apps
- Ergonomic Siedentopf binocular head
- Coaxial focusing
- Integrated carry handle
- Built-in low-drive mechanical stage
- LCD touch tablet screen (8 in.)
- Built-in camera, HDMI output, Wifi interface
- Camera chip size; 1/2.5 in.

Specifications	
<b>Condenser Type</b>	Abbe 1.25 N.A.
<b>Display Type</b>	LCD
<b>Head Style</b>	Binocular
<b>Product Type</b>	Digital tablet compound microscope
<b>Resolution</b>	USB: 1280 x720/1280x 1024 preview mode, 2592x1944 (5MP) still image Wifi: 1280 x960 preview mode, 1280 x960 (1.3MP) still image

Cat. No.	Objective Types	Price
S22237	Plan	2235.00/Ea
S22236	Semi-plan	2117.00/Ea



## Swift™ M3 Series Macro/Micro Field Microscope

Great for viewing live specimens and for field work applications.

Allow viewing of both microscopic specimens, by using the compound objectives (4X, 10XD, and 40XRD), and macroscopic specimens, by using the 1X macro objective.

- Cordless, uses energy-efficient, rechargeable LED illumination
- Allows up to 50 hours of use on a single 8-hour charge
- Magnification range of 10X-400X
- W10XD, 18mm eyepiece
- Built-in NA 0.65 condenser
- All-metal construction
- Sturdy detachable tripod legs fold for storage and stability on most indoor and outdoor surfaces
- Multiple stage positions allow for micro and macro viewing
- Top and bottom LED illumination provides energy-efficient white light with virtually no heat
- Ergonomic carry handle
- Stage clips
- Top and bottom LED illumination provides energy-efficient white light with virtually no heat
- DIN Achromatic 4X, 10XD, 40XRD objective for compound use (40X-400X magnification range)
- DIN Achromatic 1XRD for macro use (10X magnification)

**WARRANTY:**  
Three-year limited warranty



Specifications	
<b>Axis Type</b>	Coaxial coarse and fine
<b>Condenser Type</b>	Built-in 0.65 N.A.
<b>Design Type</b>	Stage clip
<b>Diaphragm</b>	Iris
<b>Magnification Power</b>	4x, 10xD, 40xRD and 2x macro
<b>Objective Types</b>	4x, 10xD, 40xRD and 2x macro
<b>Eyepiece</b>	10X, 18mm widefield
<b>For Use With (Application)</b>	Viewing live specimens and for field work applications
<b>Height (English)</b>	15.25 in.
<b>Height (Metric)</b>	38.8cm
<b>Includes</b>	Stage plate for viewing micro specimens, black/white contrast and clear collection container for viewing macro specimens
<b>Lighting Type</b>	LED
<b>Voltage</b>	110/220V
<b>Warranty</b>	3 Years
<b>Weight (English)</b>	6.8 lb.
<b>Weight (Metric)</b>	15kg

### Classroom or field work applications

#### INCLUDES:

Stage plate for viewing micro specimens, black/white contrast and clear collection container for viewing macro specimens

Cat. No.	Head Style	Price
S98498A	Binocular	631.00/Ea

## Moticam™ Digital Microscope Cameras

Transform a compound or stereo microscope into a digital microscope.

- Fit the eyepiece tube of most standard microscopes
- Come complete with Motic Images plus 2.0 Software for use with PC or Mac for still image or video capture, annotation, editing and measuring

### Moticam 2 (S02359A)

Two megapixel live imaging for large display crisp imaging

### Moticam 3+ (S22240)

Ideal for live imaging and documentation

### Moticam 5+ (S22241)

Ideal for high-resolution live imaging and documentation

### Moticam 10+ (S22242)

Create high-resolution still images and videos

### Moticam 1080 (S22243)

Multi-output HDMI camera can be used with or without a computer

### Moticam X (S02359G)

Transforms a conventional microscope into a wireless device capable of sending high-resolution images to a maximum of six Wi-Fi laptops or tablets without a router

### Moticam X2 (S02359H)

Built in battery, can run for 2 hours when charged, and has a network port.

### WARRANTY:

One year limited (all models)

### Specifications and Ordering Information

Cat. No.	S02359A	S22240	S22241	S22242	S22243	S02359G	S02359H
Description	Moticam 2	Moticam 3+	Moticam 5+	Moticam 10+	Moticam 1080	Moticam X	Moticam X2
Price	497.00	994.00	1116.00	1364.00	1240.00	356.00	490.00
Sensor	CMOS						
Active Resolution (through USB)	1600 × 1200 (2MP) @ 5 fps*	2048 × 1536 (3MP) @ 6 fps*	2592 × 1944 (5MP) @ 4 fps*	3664 × 2748 (10MP) @ 2.2 fps*	1920 × 1080 (2.0MP) @ 15 fps*	1280 × 1024 (1.3MP) (Wi-Fi only)	1280 × 1024 (1.3MP) (Wi-Fi only)
Interface Connection	USB	USB 3.0	USB 3.0	USB 3.0	HDMI (1080), AV and USB	Wi-Fi	Wi-Fi
Application	Use with white boards, compound or stereo microscopes, independently, PC, Mac	Ideal for live imaging, printed images, LCD projectors, live streaming video, PC, Mac	High-quality printed images, publishing and viewing on LCD screens, PC, Mac	High-quality printed images, publishing, and viewing on LCD screens, PC, Mac	For use with HDMI direct output or capture to SD card	For viewing on Android and iOS devices with MotiConnect App	For viewing on Android and iOS devices with MotiConnect App
Supported OS	Microsoft Windows 7 or higher; Apple macOS					Android (ICS & higher) iOS (5 & higher) Web browser (HTML5)	
Warranty	1 year						

\* Frames per second under optimal illumination conditions



Description	Cat. No.	Price
Moticam 2	S02359A	497.00
Moticam 3+	S22240	994.00
Moticam 5+	S22241	1116.00
Moticam 10+	S22242	1364.00
Moticam 1080	S22243	1240.00
Moticam X	S02359G	356.00
Moticam X2	S02359H	490.00



## Celestron™ TetraView LCD Touch Screen Microscope

Digital Desktop microscope with color LCD screen.

- Fully mechanical adjustable stage with metal clip, 88 × 88mm
- 5MP camera sensor, powers of 40x to 400x (1600x with digital zoom), 4X digital zoom
- LCD Monitor: 4.3 in. High definition touch, 320 x 240 pixel resolution, 3.5 in (90 mm) with 4X digital zoom, 262K colors
- Rotating LCD head
- Course and fine focus
- Memory: 2G SD card
- Illuminator: Lower- adjustable bright white LED
- On board (LCD) languages supported: English, German, French, Spanish, Italian, Portuguese, Japanese, Chinese Simple, Chinese traditional
- AC Adapter: Input Universal, 100 to 240Volt 50/60HZ, multi-country plug
- Dimensions: 178 × 140 × 330mm (7 × 5.5 × 13 in.)
- For 120V 60Hz



Cat. No.	Description	Price
S05039	TetraView LCD Touch Screen Microscope	340.00/Ea

## Celestron™ CB2000 Series Compound Microscope

Lab-ready compound binocular microscope with 2000x power.

- Full-metal construction with fully mechanical stage
- Coarse and fine focus knobs
- Achromatic objective lenses
- Abbe condenser with iris diaphragm concentrates and focuses lower illumination for viewing
- For 120V 60Hz



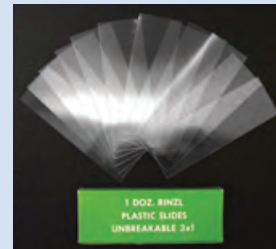
Cat. No.	Description	Price
S13039	CB2000CF Compound Microscope	230.00/Ea
S13040	CB2000C Compound Microscope	360.00/Ea

### Microscope Accessories

## fisherbrand Disposable Microscope Slides

Durable plastic microscope slides.

- Precleaned and packed per dozen
- Size: 3 × 1 in. (7.6 × 2.5cm)



Cat. No.	Price
S67111A	5.40/Pk
S67112A	19.25/Pk

## fisherbrand Disposable Cover Slips

Unbreakable, noncurling, plastic slips.

- Size: 0.87 × 0.87 in. (22 × 22mm)
- Thickness: 0.007 × 0.010 in. (0.17 to 0.25mm)



Cat. No.	Price
S17525B	4.50/Pk
S17525C	40.00/Pk

## fisherbrand Microscope Cover Glasses

Packed for easy dispensing; clean and ready-to-use.

- Uniform thickness and size
- Noncorrosive, nonfogging, and free from bubbles, scratches, and striations



**ORDERING INFORMATION:**  
Sold as One Each or Case of 10.

Cat. No.	Dimensions (L × W)	Thickness (Metric)	Price
S17521	18 × 18mm Squares	0.13 to 0.17mm	11.25/Pk
S17522	18 × 18mm Squares	0.17 to 0.25mm	11.75/Pk
S175221	22 × 22mm Squares	0.17 to 0.25mm	10.75/Pk
S175212	25 × 25mm Squares	0.13 to 0.17mm	29.50/Pk
S175222	25 × 25mm Squares	0.17 to 0.25mm	25.75/Pk
S175223	18mm Circle	0.13 to 0.17mm	101.00/Pk

## Eisco Microscope Glass Slides

Made from clear and optically-flat glass.

- Frosted glass
- Ground and polished edges
- Size: 75 x 25mm; 72/Pk



Cat. No.	Description	Price
S24460	Microscope Glass Slides	7.00/EA

## Eisco Frosted Microscope Glass Slides

Pre-cleaned, for use in laboratories. EISCO Frosted Microscope Glass slides are made from clear, optically flat glass.

- Constructed of clear, noncorrosive glass with ground and polished edges
- Standard size: 75 x 25mm (3 x 1 in.)
- Thickness: 1.1 to 1.2mm

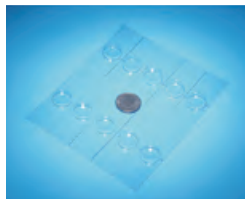


Cat. No.	Price
S95933	9.75/Pk
S13944	3.25/Pk

## United Scientific™ Plastic Well Slides

Reusable alternative to glass slide with well.

- Reusable
- Dimension: 3 in. x 1 in.
- Well dimensions: approximately 16mm diameter with a depth of 2 to 3mm
- Construction: clear plastic
- Supplied as sheets of 10



Cat. No.	Description	Price
S07365	Plastic Well Slides	1.25/Pk

## Deep-Well Projection Slides

View specimens by either microscope or projector.

Slides hold live aquatic specimens in the well and permit students to view them under a microscope or by means of a 35mm or overhead projector.

Chemistry students can view crystal formation.

- For use with viewing under microscope or 35mm overhead projector with cap



Cat. No.	Description	Price
S17889	Deep-Well Projection Slides	10.81/Pk

## Glass Microscope Slides and Coverslips

Pre-cleaned slides and cover slips

- Plain glass
- Good quality
- Slide thickness: 1.0 to 1.2mm
- Cover slip thickness: 0.13 to 0.17mm

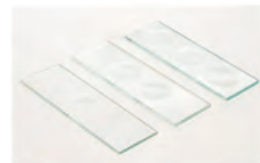


Cat. No.	Description	Length (Metric)	Width (Metric)	Price
S17466A	Microscope slides	75mm	25mm	15.50/Pk

## United Scientific™ Glass Concavity Slide

Pre-cleaned slide of 1.3mm thickness with single concavity.

- Made of quality sheet glass, with ground edges
- Spherical concavity with 16mm diameter and depth of 0.8mm
- Size: 75 x 25mm
- Quantity: 12/Pk.



Cat. No.	Description	Price
S13129	High Volume Bottle Top Dispenser	5.05/Pk

## fisherbrand Slide Holder

Holders keep slides clean and untouched, and can be stored in sturdy steel cabinets with one or two drawers.

### Slide Holders

- Add, remove or change cards for fast updating and filing; adapts to your slide ID system (numbers, letters, dates, names or color coding)
- Visible, four-position tabs; ruled data lines keyed to numbered slots and allow complete slide identification
- 3 x 5 in. (7.6 x 12.7cm) cardboard fitted with protective plastic frame accepts four slides of 75 x 25mm or 3 x 1 in. size of any thickness



### ORDERING INFORMATION:

One and two door cabinets sold separately (Cat. Nos. S94845 and S94846).

Cat. No.	Description	Price
S94844	Slide Holder	20.00/Pk

## Eisco Polystyrene Slide Boxes

Durable — keep slides safe and in order.

- Compact design with heavy walls that will not warp, splinter or crack
- Hold 3 × 1 in. (75 × 25mm) slides



Cat. No.	Device Holds	Price
S95934A	10	6.55/Ea
S95934B	25	7.15/Ea
S95934C	50	10.25/Ea
S95934D	100	17.25/Ea

## Cleanware™ Microscope Optics Cleaning Kit

Contains everything you need to keep optics and microscope parts sanitary, clean and clear

- Ten, pre-saturated optical cleaning pads
- Two individually wrapped packs of anti-static plastic surface wipes
- Two, 15.2cm (6") swabs pre-moistened with alcohol(2)
- Complete instructions for use



Cat. No.	Description	Price
S193141	Microscope optics cleaning kit	111.00/Ea

## Polypropylene Coplin Staining Jar

Large opening for easy placement and removal of slides.

- Stains 3 × 1 in. (75 × 25mm) slides vertically
- Holds five single slides or 10 slides back to back
- Screw cap reduces leaks and evaporation

### Specifications:

- Steam autoclavable to 121°C (250°F)
- Overall height: 4.5 in. (114mm)
- Base diameter: 2.38 in. (59.7mm)



### INCLUDES:

53mm polypropylene flat-top screw cap

Cat. No.	Description	Price
S90130	For 5 or 10 slides	11.00/Ea

## Vikem™ Vinyl Microscope Covers

Vikem™ Microscope Covers are transparent vinyl covers that protect microscopes, balances and other instruments from dust and spills. Available in several sizes.



- Protect against dust and spills
- Available in a variety of sizes
- Transparent vinyl covers won't crack or tear
- Cover slides over the instrument when not in use

Cat. No.	Height (English)	Length (English)	Size	Width (English)	Price
S19325	16.5 in.	13 in.	Standard	9 in.	19.00/Ea
S19327	18 in.	16 in.	Large	11 in.	24.00/Ea

## Cargille Immersion Oil

Finest immersion oil available.

For use with 100X oil immersion objectives. Type B is recommended for most educational microscopy; contains no PCB compounds.



- Type A: Low fluorescence, low viscosity
- Type B: Low fluorescence, high viscosity
- Refractive Index: 1.5150 ±0.0002

### INCLUDES:

ISO 8036/1

Cat. No.	Quantity	Viscosity	Description	Price
S19314	1 oz.	1250 cSt	Type B Immersion Oil	19.00/Ea
S19304A	1 oz.	150 cSt	Type A Immersion Oil	19.00/Ea
S19305	4 oz.	150 cSt	Type A Immersion Oil	33.25/Ea
S19312	4 oz.	1250 cSt	Type B Immersion Oil	33.25/Ea

## fisherbrand Optical Lens Cleaner

Excellent for removing oil and smudges from objectives or any optical surface.

- Regular cleaning helps extend the life of your objective by removing surface debris that could cause scratching
- Cleans gently — will not affect a coated optic or soften the mounting that holds the objective in place
- Laboratory safe
- Nonflammable



### ORDERING INFORMATION:

Supplied in 2 oz. (59mL) bottles

Cat. No.	Description	Price
S66878	Optical Lens Cleaner	56.25/Pk



## Lens Paper

Cleans lenses and other delicate surfaces.

- Specially made for cleaning lenses
- Soft, thin paper is free from impurities
- Cleans but never scratches and doesn't become harsh



Cat. No.	Description	Price
S47605	50 sheets	15.25/Pk
S47606	100 sheets	26.27/Pk

## Bibulous Paper for Drying Slides

Absorbent paper is useful in a variety of lab settings.

Recommended for drying slides in bacteriological, pathological and biological laboratories, this absorbent paper comes in sheets measuring 5.9 × 3.9 in. (15 × 10cm). Each book of 50 sheets is neatly bound with heavy paper covers.



Cat. No.	Description	Price
S17499	Bibulous Paper 15x10cm 12bk/pk	30.75/Pk

## Horizontal Staining Dish

Horizontal staining dish with removable tray and cover.

- Fits 75 × 25mm, 75 × 38mm or 75 × 50mm slides
- Holds up to 20 slides
- Tray has 10 grooves and spring wire holder
- Dimensions: 3.8 × 3.05 × 2.15 in. (9.5 × 7.63 × 5.38cm)

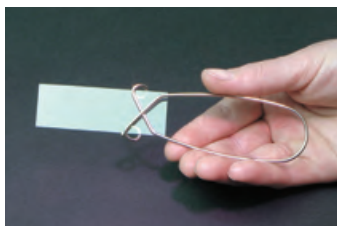


Cat. No.	Description	Price
S17464	Glass Dish	130.00/Ea

## United Scientific™ Slide-Holding Forceps

For handling cover glasses and slides.

- Constructed of plated steel wire
- Allow you to securely grip cover glasses and slides



Cat. No.	Description	Price
S01972	Slide Holding Forceps	1.30/Ea

## Coplin Staining Dish

Large capacity, with cover.

Coplin staining dish with cover holds slides vertically.

- Heavy-molded glass
- Rectangular body with five grooves
- Outer diameter: 2.3 in. (6cm)
- Overall height: 4.7 in. (12cm)
- Holds up to 10 standard 75 × 25mm slides back to back



Cat. No.	Description	Price
S17495	Coplin Staining Dish	26.50/Ea

## Celestron™ NexYZ 3-Axis Universal Smartphone Adapter



Celestron NexYZ 3-Axis Universal Smartphone Adapter connects a smartphone to a telescope, spotting scope, binocular, monocular, and microscope to capture images and video through the eyepiece

- Works with a wide range of mobile phone models, including all the latest devices from Samsung, Google, and Apple
- Features three directional knobs that perfectly align the phone camera with the eyepiece in seconds
- Stands up to rigorous field use thanks to its robust, durable construction with a metal frame and polymer body
- Fits any eyepiece from 35mm to 60mm in diameter including telescopes with 1.25in. and 2in. eyepieces, spotting scopes, monoculars, and binoculars
- Attaches to microscopes with the addition of the included adapter ring, taking the usable diameter down to 25mm, the size of a standard microscope eyepiece
- Strong spring and a threaded twist lock provide a two-level strong and secure grip on the optical instrument's eyepiece to image with confidence
- Phone platform is fully adjustable to fit any device, typically with the case on
- Larger devices like the iPhone 8 Plus and latest Samsung Galaxy devices work as well
- Secure platform stands up to the weight of heavier devices
- Spring-loaded clamps make it easy to quickly remove one device and replace it with another
- Switch image from portrait to landscape by turning the padded eyepiece clamp and readjusting the X, Y, and Z axis



Easy as X-Y-Z

- Three-axis adjustment gives users the power to place a phone on the platform, center it over the eyepiece with the X and Y knobs, and move up or down over the eyepiece until entire field of view is in the shot
- Adjustment is precise, quick and easy
- Switching phones, eyepieces, or optical instruments, only necessitates slight adjustments to re-center the camera over the new eyepiece

**WARRANTY:**  
2-Year Warranty

Cat. No.	Description	Price
S72453	NexYZ 3-Axis Universal Smartphone Adapter	62.00/Ea



## Celestron™ Digital Microscope Imager

Replaces eyepiece and connects directly to PC.



- Record still images and video of specimens using 2.0 MP CMOS sensor
- Works with any traditional microscope with 23 mm to 30 mm diameter eyepiece tubes
- Imaging Sensor: 2.0 MP CMOS, 10x in lieu of eyepiece
- Software Compatibility: Windows XP or better, Mac OS X 10.4.9 or better
- USB Connection: 2.0, cable attached
- Dimensions: 64 × 22mm (2.5 × .9 in.) diameter
- Imager replaces eyepiece and connects directly to PC, streaming images of specimens viewing
- perfect tool for hobbyists, teachers, students, medical labs, and more.

**WARRANTY:**

Two years

Cat. No.	Description	Price
S13033	Digital Microscope Imager	72.75/Ea

## Thermo Scientific™ LP Vortex Mixer

Choose to continuously mix or pulse samples with our low profile vortex mixer.



- Low profile design with small footprint
- Continuous or pulsing functions
- Speed Control: 0 to 3000rpm
- Built-in safety features regarding current overload
- Wide variety of optional accessories to accommodate different vessel types
- 100-240V, 50/60Hz, US plug

Cat. No.	Description	Price
S28672	LP Vortex Mixer	510.00/Ea

Mixers

### fisherbrand Fixed Speed Nutrating Mixer

Delivers gentle uniform mixing of fluids in tubes, plates, culture flasks and dishes

- Budget friendly design
- Easy to use, plug and play operation
- Fixed-speed movement at 20° angle
- Operating temperature range: 5 to 40C, usable in non-CO2 incubators, refrigerators and chambers
- Mat is removable and can be cleaned with soap and water



**WARRANTY:**

2 years

Cat. No.	Description	Price
S28873	Fixed Speed Nutrating Mixer	265.00/Ea

## Ohaus™ Standard Analog Vortex Mixer

Allows low rpm startup for gentle shaking or high speed mixing for vigorous vortexing of samples.

- Variable, analog speed control
- Speed: 300 to 3200rpm
- Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing cup head
- Supplied with both cup head, and 3 in. head with cove



**WARRANTY:**

2-Year

**CERTIFICATIONS:**

TUV Listed

Cat. No.	Description	Price
S38786	Standard Analog Vortex Mixer; 120V	319.00/Ea

## Ohaus™ Mini Digital Vortex Mixer

Ideal for applications that demand repeatable results.

- New ergonomic design
- Microprocessor control maintains set speed for consistent mixing
- LED displays for speed and time
- Continuous or touch mode operation
- Supplied with cup head and 3 in. head with cover
- Speed: 500 to 3000rpm
- 120V



**WARRANTY:**

2-Year

**CERTIFICATIONS:**

TUV Listed

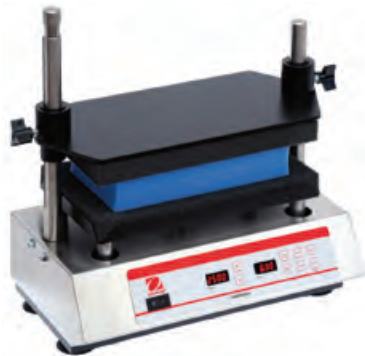
Cat. No.	Description	Price
S38785	Advanced Digital Vortex Mixer	409.00/Ea

## Ohaus™ Multi-Tube Vortex Mixer



Ohaus Multi-Tube Vortexers are ideal for high throughput sample processing. Interchangeable foam racks for vortexing tubes from 10 to 29 mm in diameter available

- Vortexing action is created by securing the top of the sample in place while allowing the bottom to rotate freely in a 3.6mm orbit.
- Process up to 50 samples at a time
- Includes 3 wire cord and plug, Tray Pad set for support, 12mm test tube foam rack



Specifications	
Amperage	5
Electrical Requirements	110V
Height (English) Exterior	16in.
Hertz	50/60
Length (English) Platform	7.3in.
Load Bearing Capacity	10lb.
Operating Modes	Continuous
Shipping Weight (English)	42.1lb.
Width (English) Platform	12.3in.

Cat. No.	Speed	Type	Price
S72098	1200 to 2400rpm	Analog	2900.00/Ea
S72099	500 to 2500rpm	Digital	3400.00/Ea

## Ohaus™ Fixed Speed Mini Vortex Mixer

One touch units for fixed high speed mixing.

- Touch mode operation
- Operating Conditions: 4° to 40°C
- Mixing starts when cup head is pressed down
- Vigorous vortexing of samples at 3200rpm fixed speed
- Supplied with both cup head, and 7.62cm (3 in.) head with cover
- 120V



**WARRANTY:**

2-Year

**CERTIFICATIONS:**

TUV

Cat. No.	Description	Price
S38787	Basic Fixed Speed Vortex Mixer	280.00/Ea

## Ohaus™ Heavy Duty Vortex Mixer



The Ohaus Heavy Duty Vortex Mixer is a variable speed mixer designed for continuous duty. Offers two modes of operation; 'Touch' mode for mixing tubes when cup head or Universal Holder with cover is depressed or 'On' mode when using any of the accessory attachments for continuous operation.

- Includes cup head, universal holder with cover, foam microtube insert for 1.5 to 2.0 ml microtubes, detachable, 3-wire cord & plug
- Speed range 300 to 2,500 RPM (On Mode); 300 to 3,500 RPM (Touch Mode)
- Orbit: 4.9mm
- Capacity: 2.5 lbs.
- Dimensions: 9.5 × 6.6 × 6.3 in.



**WARRANTY:**

2 years

Specifications	
Length (Metric) Exterior	24.1cm
Width (Metric) Exterior	16.8cm
Height (Metric) Exterior	16cm
Speed	300 to 2500 rpm (On Mode), 300 to 3500 rpm (Touch Mode)
Model	VXHDAL
Operating Modes	On mode/Touch mode
Tube Capacity	1.5 to 2.0 ml
Includes	Foam insert for 1.5 & 2.0 ml microtubes

Cat. No.	Type	Price
S72024	Digital	1105.00/Ea
S72025	Analog	949.00/Ea

## Ohaus™ Microplate Vortex Mixer



The Ohaus Microplate Vortex Mixer is a variable speed mixer designed for continuous duty. High speed and small orbit is optimal for effectively mixing microplates. Two modes of operation: 'Touch' activates mixing when cup head is depressed or 'On' when using microplate attachments for continuous operation.



- Includes cup head, single microplate holder, detachable 3-wire cord & plug
- Speed range 300 to 2,500 RPM (On Mode); 300 to 3,500 RPM (Touch Mode)
- Orbit: 3.5 mm
- Capacity: 2 microplates
- Dimensions: 10.5 × 5.4 × 4.5 in.

**WARRANTY:**

2 years

Specifications	
Length (Metric) Exterior	26.7cm
Width (Metric) Exterior	13.7cm
Height (Metric) Exterior	11.4cm
Speed	300 to 2500 rpm (On Mode), 300 to 3500 rpm (Touch Mode)
Model	VXMPAL
Operating Modes	On mode/Touch mode
Includes	Cup Head, Single Microplate Holder

Cat. No.	Type	Price
S72026	Digital	515.00/Ea
S72027	Analog	443.00/Ea

## Troemner™ Talboys™ Standard Analog Vortex Mixer

Allows low rpm startup for gentle shaking or high speed mixing for vigorous vortexing of samples.

- Speed: 300 to 3200rpm
- For 120V 60Hz
- Variable, analog speed control
- Two modes of operation; continuous mode when using accessory attachments or touch mode which activates mixing when depressing cup head
- Supplied with both cup head, and 7.62cm (3 in.) head with cover
- Operating Conditions: 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing

**Applications:**

Single or multiple tube mixing, general mixing, resuspending samples, mixing solids or semi-solids in to liquids, cell lysing

**WARRANTY:**

5 years on parts and labor

**CERTIFICATIONS:**

TUV Listed



Cat. No.	Description	Price
S14178	Standard Analog Vortex Mixer; 120V	410.00/Ea

## One-Speed Laboratory Blender

Laboratory blender with one speed switch setting.

- Speed: 22.000rpm
- For 120V 60Hz
- Epoxy-coated motor housing base
- Glass container with handle
- Two-piece vinyl and styrene lid
- Heat-resistant container
- Overall height: 16 in. (40.6cm)
- Weight: 10 lb. (4.5kg)



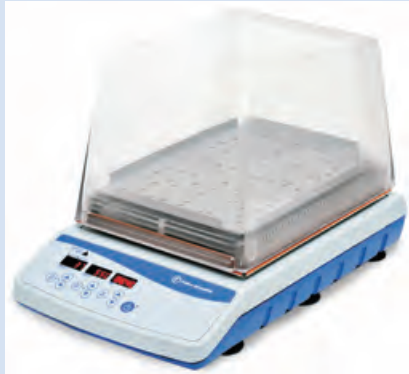
Cat. No.	Description	Price
S02530	One-Speed Laboratory Blender	435.00/Ea

**HEADLINE DISCOVERIES:**  
SCIENCE HAPPENS

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## fisherbrand Incubating Mini-Shaker

Fisherbrand Incubating Mini-Shaker is designed to heat and shake variety of samples such as cell cultures and bacterial suspensions.



The instrument provides consistent and uniform shaking action. Microprocessor displays last set point and restarts if power is interrupted. Easy-to-use controls allow users to adjust temperature in 1°C increments. Provides repeatable and accurate results every time. Display is easily visible across lab benches.

- Speed: 120 to 1200rpm
- PID temperature controller: Maintains precise temperature control from ambient °C to 65°C. Easy-to-use controls allow users to adjust temperature in 1°C increments
- Triple eccentric drive: Permanently lubricated ball bearings and maintenance free, brushless DC motor provide reliable service and continuous duty operation
- LED display: Touch pad controls with easy-to-read, independent LED displays for temperature, speed and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off
- Temperature calibration mode: Allows user to calibrate unit to an external temperature device
- Audible and visual signals will activate when system detects an obstruction or overload of the tray
- In timed mode, when the time reaches zero, alarm will sound 5 times, window shows "End" and flickers all the time. Alarm can be stopped by touch any key
- Symbol illuminates when the temperature of the air in the chamber reaches 40°C and remains lit until temperature cools down.
- Channels fluids away from internal components
- 17 × 11 × 17.5 in. (43 × 28 × 27cm)
- 120V 5A, 450w

Cat. No.	Description	Price
S35836	Incubating Mini-Shaker	2928.00/Ea

## Ohaus™ Analog Orbital Shaker

Economical shaker designed for educational labs or basic shaking applications.

- Low-profile design takes up less space and easily fits into most fume hoods and incubators
- Cast-aluminum base offers durability and added stability
- Speed range: 40 to 300rpm
- 120V; 5 amps; 25 watts
- Variable-speed microprocessor control provides consistent uniform shaking action



### INCLUDES:

92 in. (234cm) detachable, three-wire cord and plug. Units are also supplied with an 11.75 × 8.75 in. (29.9 × 22.2cm) non-skid rubber mat.

### WARRANTY:

2-Year

Cat. No.	Description	Price
S38770	Analog Orbital Shaker	1055.00/Ea

## Ohaus™ Analog Heavy Duty Shaker



Ohaus Analog Heavy Duty Shakers are designed to handle a range of applications. Built-in tray and non-slip rubber mat included with all models.

- Microprocessor controlled
- Continuous or timed operation
- Speed ramping feature and spill resistant design
- Speed range: 25 to 500rpm



Cat. No.	Description	Price
S72070	Capacity: 35lb; Orbit: 19mm	2055.00/Ea
S72074	Capacity: 50lb; Orbit: 25mm	4530.00/Ea

## Ohaus™ Heavy Duty Shaker



Ohaus Heavy Duty Shakers are designed to handle a range of applications. Digital model with microprocessor control to provide variable speed and consistent shaking, while ramping to the set speed. Built-in tray and non-slip rubber mat included.

- Exceptional speed control, accuracy and durability
- LED displays for speed and time
- Calibration mode for speed
- Overload protection and speed ramping feature
- Speed range: 15 to 500rpm
- For 120V 60Hz



Cat. No.	Description	Price
S72071	Heavy Duty Shaker	2450.00/Ea



## Ohaus™ Heavy Duty Shaker



Ohaus Heavy Duty Shakers are designed to handle a range of applications. Available as analog or digital model with microprocessor control to provide variable speed and consistent shaking, while ramping to the set speed



- Patented Accu-Drive Shaking System
- LED displays for speed and time
- Built-in tray and non-slip rubber mat included.
- Overload protection and speed ramping feature
- Calibration mode for speed
- Platform length: 24 in.
- 120V

Cat. No.	Capacity	Control	Width (English) Platform	Speed	Price
S72075	50lb.	Digital	18in.	20 to 500rpm	4800.00/Ea
S72076	100lb.	Digital	24in.	15 to 500rpm	6825.00/Ea
S72077	100lb.	Analog	24in.	15 to 300rpm	7050.00/Ea
S72078	150lb.	Digital	36in.	15 to 500rpm	7700.00/Ea
S72079	150lb.	Analog	36in.	15 to 300rpm	8570.00/Ea

## Troemner™ Talboys™ Standard 1000 Orbital Shaker

Economical shaker designed for educational labs or basic shaking applications.



- Low-profile design takes up less space and easily fits into most fume hoods and incubators
- Cast-aluminum base offers durability and added stability
- Variable-speed microprocessor control provides consistent uniform shaking action
- Permanently lubricated ball bearings and maintenance-free
- Brushless DC motor provides reliable service and continuous-duty operation
- Basic speed knob with 1 to 10 dial settings
- Can be run in coldrooms, incubators and CO<sub>2</sub> environments from 0 to 40°C (32 to 104°F)
- Speed: 40 to 300rpm
- For 120V 50/60Hz

### ORDERING INFORMATION:

Unit includes a 92 in. (234cm) detachable, three-wire cord and plug. Units are also supplied with an 11.75 × 8.75 in. (29.9 × 22.2cm) non-skid rubber mat.

### WARRANTY:

5 year warranty on parts and labor

### CERTIFICATIONS:

CSA Listed

Cat. No.	Description	Price
S98867	Orbital Shaker	1355.00/Ea

## Ovens

### fisherbrand 105L Gravity Oven

For basic drying and heating applications

- Ideal for drying or heating applications
- Maximum temperature 250°C
- Over-temperature protection
- Manually adjustable damper for increased air circulation
- Digital controller
- Stainless-steel interior
- Painted steel exterior
- For 120V



Cat. No.	Description	Price
S22520	105L Gravity Oven	1301.00/Ea

## Thermo Scientific™ Muffle Furnaces

Ideal for the determination of volatile and suspended solids, drying and evaporating, ignition tests, gravimetric analysis, ashing organic and inorganic samples and heat treatment operations.

Furnaces feature a latching handle on a door that opens downward to provide a handy shelf.

- Stepless input controller holds any temperature from 100 to 1100°C
- Direct reading pyrometer has °C and °F scales
- All models are compensated for room temperature variations and molded with ceramic fiber insulation, offering excellent chemical stability and resistance to corrosive agents
- A door safety switch safeguards operator
- Durable, welded steel case
- Two sizes available



### INCLUDES:

Thermocouple and line cord with plug for 120V, 50/60Hz

### CERTIFICATIONS:

UL listed

Cat. No.	Height (English) Exterior	Price
S52107	14.5 in.	2752.00/Ea
S52106	14 in.	2308.00/Ea

## Thermo Scientific™ 65L Gravity Oven

For basic drying and heating applications

- Capacity: 65L
- Stainless-steel interior
- Painted steel exterior
- Over-temperature protection
- Maximum temperature 250°C
- Ideal for drying or heating applications
- Manually adjustable damper for increased air circulation
- Digital controller



Cat. No.	Description	Price
S22519	65L Gravity Oven	1843.00/Ea

## Lab Drying/Sterilizing Ovens

Well-crafted, gravity-convection ovens are versatile for a number of laboratory uses.

Can be used in drying, sterilizing, baking, evaporating, heat-treating, annealing and testing.

- Uniform temperature up to 232°C (450°F), ±3°C
- Durable, scratch-resistant finish and double-wall construction
- Welded steel interior chambers feature two adjustable and one fixed chrome-plated shelves
- All heating elements are sheathed and interconnecting wiring is simple
- Indicator light and thermostat for trouble-free maintenance
- For 120V



### INCLUDES:

- Laboratory thermometer
- Cord with grounded plug

Cat. No.	Capacity	Amperage	Depth (English) Interior	Price
S50171***	.7 cu. ft., 19.8L	5.2A	10 in.	626.00/Ea
S43015***	3 cu. ft., 85L	12.5A	14 in.	1066.00/Ea
S50170A***	2 cu. ft., 56.6L	10.5A	12 in.	884.00/Ea
S50172***	1.27cu. ft., 35.9L	6.3A	13 in.	832.00/Ea

## Low-Temp Series Lab Ovens

PID microprocessor control accurately maintains temperature settings within ±1.0°C, even in varying ambient or power supply conditions.

- Cabinets have heavy steel double-wall construction with high-impact thermoplastic handles on doors
- Corrosion-resistant aluminized steel interiors with high-density mineral wool insulated work space
- Hard, scratch-resistant exteriors painted gray with hammer finish
- All components are quality UL- and CSA-recognized
- Energy-efficient, low-watt density, incoloy-sheathed heating elements
- Temperature-tracking feature stores temperature deviation from set point
- With large LEDs to display process temperature
- Temperature range: 210°F (99°C)



### Applications:

Part drying, baking, curing, sterilizing, evaporating, heat treating, annealing and testing

### WARRANTY:

18-month factory warranty.

Specifications	
Certifications/Compliance	UL, CSA
Construction	Steel double-wall, aluminized interior
Chamber Material	Aluminum
Voltage	115V
For Use With (Application)	For part drying, baking, curing, sterilizing, evaporating, heat treating, annealing, and testing

Cat. No.	Amperage	Capacity (Metric)	No. of Shelves	Price
S04764***	5.2A	85L	22	1322.00/Ea

## Digital Laboratory Forced Air Ovens

Offers greater temperature consistency.

- Digital microprocessor control
- Forced air
- Durable double wall construction
- Scratch resistant hammer finish
- Corrosion resistant aluminized interior
- Made with UL and CSA recognized components

Cat. No.	Amperage	Wattage	Price
S13045***	6.6A	800w	1035.00/Ea
S13046	8.8A	1050w	1051.00/Ea
S13047	12.5A	1500w	1299.00/Ea
S13048***	12.5A	1500w	1423.00/Ea

\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Digital Laboratory Gravity Convection Ovens

Easier to accurately set than analog ovens.

- Digital microprocessor control
- Gravity convection
- Durable double wall construction
- Scratch resistant hammer finish
- Corrosion resistant aluminized interior
- Made with UL and CSA recognized components



Cat. No.	Capacity	Amperage	Wattage	Dimensions (D x W x H) Interior	Price
S13041***	19.8L	5.2A	600w	25.4 x 30.5 x 25.4cm (10 x 12 x 10 in.)	832.00/Ea
S13042***	36L	6.3A	750w	33 x 33 x 33cm (13 x 13 x 13 in.)	935.00/Ea
S13043***	56.6L	10.5A	1200w	30.5 x 45.7 x 39.6cm (12 x 18 x 15.6 in.)	1055.00/Ea
S13044***	85L	12.5A	1500w	35.6 x 45.7 x 55.4cm (14 x 18 x 21.8 in.)	1190.00/Ea

### Pumps

## Pressure/Vacuum Pump

Features pressure and vacuum gauges.

For air sampling, pressure/vacuum filtration, degassing solutions. Separate vacuum and pressure gauges, graduated from 0–30 in.Hg and 0–100psig, respectively. Durable air seal between piston and cylinder.



### Specifications:

- Free Air Displacement: 37L/min.
- Pump Speed: 1725rpm
- Pressure: 100psig (689kPag)
- Vacuum: 25 in.hg
- Motor: 0.17hp 110V 60Hz
- Hose Connection takes 0.25 in. I.D. tubing
- Dimensions: 10.75H x 15.25L x 8 in.W (27.3 x 38.7 x 20.3cm)
- Weight: 17 lb. (7.7kg)
- For 110V 60Hz

### INCLUDES:

- Moisture trap
- Intake filter
- Handle
- Rubber suction-cup feet

Cat. No.	Description	Price
S413801	0.17hp motor	747.00/Ea

## Eisco Hand Operated Vacuum Pump

Experiment with air pressure and atmosphere, vacuum filtering and check for leaks.

- Hg displaces 725mL of air
- Pump rate of 15mL
- Clear tubing is 60cm with 6mm inner diameter
- Experiment with air pressure and atmosphere, vacuum filtering and check for leaks
- Economical pump features a gauge in cm and inches



Cat. No.	Description	Price
S12932	Hand Operated Vacuum Pump	39.00/Ea

## 3B Scientific™ Rotary-Vane Vacuum Pump

Two-stage with Manometer.

High performance, compact, oil-sealed rotary vane pump for vacuum experiments.

- Protected against thermal overload
- Equipped with ventilation valve, exhaust filter and voltage selector switch
- Used only in vacuum experiments to depressurize vacuum containers



### Specifications

- Power supply: 110–120V, 60Hz; 220–240V, 50/60Hz
- Suction capacity: 100L/min.
- Final pressure: 3x10<sup>-3</sup>hPa
- Motor power: 245W
- Manometer: 0–1000 hPa
- Hose nipple: 10mm dia.

**ORDERING INFORMATION:**  
Dimensions: approx. 335 x 138 x 250mm<sup>3</sup>;  
Weight: approx. 11kg

**INCLUDES:**  
Pump oil

**DISCLAIMERS:**  
Not designed for commercial use

Cat. No.	Description	Price
S05517	Rotary-Vane Vacuum Pump; 100L/min.	530.00/Ea

## Vacuum Pumps

Compact and lightweight for easy portability.

Two-stage pump features a clean, functional design with vibrationless operation. Ultimate vacuum is 1 micron in the lab and better than 25 microns under field conditions.



- Pump speed: 1,725rpm
- Motor: 1/3hp, 110V 60Hz
- Motor Speed 1725rpm
- Weight: 28 lb. (12.7kg)
- For 110V 60Hz
- Free air displacement: 85L/min.
- Hose connection: 0.25 in. (0.63cm) I.D. tubing
- Dimensions: 15.5L x 6.5W x 11.25 in.H (38.8 x 16.3 x 28.1cm)

*Good vacuum practice calls for the hose connections to be as short as possible to achieve ultimate vacuum. A gas ballast helps purge moisture from the vacuum system. The gas ballast valve, oil-level gauge, inlet and outlet connections, oil fill plug and drain are all easily accessible. A trap reduces the risk of oil being drawn back into the system.*

Cat. No.	Description	Price
S97604	With Gauge	1153.00/Ea



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\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## Oil-less Pressure/ Vacuum Pump

A portable, clean-running diaphragm pump.

Easily transport this lightweight diaphragm pump from class to class for demonstrations. Includes separate vacuum and pressure regulators graduated from 0 to 60psig and 0 to 25 in.Hg. Features aluminum housing with rubber feet, handle, built-in switch, cord and plug.



### Specifications:

- Free air displacement: 31.15L/min.
- Pump speed: 1725rpm
- Pressure: 60psig
- Vacuum: 25 in.Hg
- Motor: 1/8hp 115V 60Hz
- Hose connection takes 0.25 in. (0.6cm) I.D. tubing
- Dimensions: 10.75H x 7.75L x 6.5 in.W (27.3 x 19.7 x 16.5cm)
- Weight: 15 lb. (6.8kg)

Cat. No.	Description	Price
S63086	Pressure/Vacuum Pump	568.00/Ea

## Thermo Scientific™ Nalgene™ Aspirator Vacuum Pump

Efficient and easy to use.

- Pumping capacity: 11.5L/min.
- Water consumption rate: 6.5L/min.
- Easily attaches to faucet
- Ultimate vacuum: 28.5 in. (72.39cm) of Hg

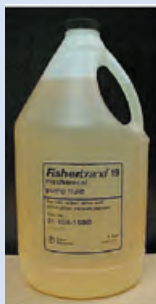


Cat. No.	Description	Price
S41381	Aspirator Vacuum Pump	31.20/Ea

## fisherbrand 19 Mechanical Pump Oil

Fisherbrand 19 Mechanical Pump Oil is a durable vacuum pump fluid recommended for belt-drive and direct-drive pumps. Properties include lower vapor pressures, reduced backstreaming, and longer fluid life. For use in non-corrosive and non-extreme operating conditions.

- Also for use in the forepump of a diffusion pump system with polyphenyl ethers, silicone, and ester-based pump fluids
- Permits cooler pump operation, lower maintenance, longer fluid life, reduced power consumption
- Reduces backstreaming
- Protects O-rings
- Ultimate pressure at 25°C (77°F), 8.5 x 10<sup>-5</sup> torr
- Pour point, - 15°C (+ 5°F)
- Flash point, 212°C (415°F)



Cat. No.	Quantity	Volume (English)	Price
S41385	Each	1 gal.	92.00/Ea

## High Vacuum Grease

Seal and lubricate vacuum and pressure systems.

- Low volatility to hold deep vacuums
- Resists oxidation, melting and gumming
- Good chemical and thermal stability
- Maintains consistency at temperatures from -40° to +204°C (-40° to +400°F)
- Capacity: 5.3 oz. (150.2g) tube



Cat. No.	Description	Price
S41718	High Vacuum Grease	39.25/Ea

## Vacuum Plate

High quality for years of classroom use.

Made of steel with rubber gasket, this vacuum plate is large enough to accommodate bell jars up to 9 in. (22.5cm) in diameter.



- Nickel-plated, 0.5 in. (1.25cm) steel plate provides extra strength and is ground flat for a good seal
- Complete with a barbed hose connection, vacuum release valve and rubber gasket to provide a tight seal

### REQUIRES:

0.25 in. (0.63cm) I.D. tubing

Cat. No.	Description	Price
S413301	Vacuum Plate	385.00/Ea

## Flushing Oil

Essential for high vacuum pump maintenance.

- Safely remove sediment and contamination from high vacuum pumps
- One or two flushings clean residue and protect pump
- Pump can be refilled immediately after flushing
- 1 gal. size
- Use for flushing only. Should not be used for high vacuum operation.



Cat. No.	Description	Price
S41456	Flushing Oil	38.25/Ea

## Glass Bell Jars

Jars are safe at high pressure.

- Made of heavy molded glass to withstand pressure
- Knob top facilitates handling
- Ground flange provides excellent seal



Cat. No.	Capacity (English)	Diameter (English) Inside	Height (English)	Price
S30955	1 gal.	6 in.	11 in.	130.00/Ea
S30956	3 gal.	8.5 in.	15 in.	313.00/Ea



## 3B Scientific™ Vacuum Experiment Plate and Bell Jar

Assemble your own vacuum chamber in your classroom.



- Combine vacuum plate and separate bell jar to create vacuum conditions
- Useful in the coarse and fine vacuum range
- Metal experiment plate has sealing ring on a tripod
- Glass vacuum bell jar has a secure grip knob and polished flange

**INCLUDES:**  
Plate: Hose connection on pump-side, ventilation cock and vacuum-tight current feed with 4mm safety sockets, center core with M12 thread for attaching experimental equipment vacuum jar

**ORDERING INFORMATION:**  
Order both plate and bell jar to create vacuum conditions. Plate: current feed-through, two-pole with 4mm safety sockets (red, black); power feed, two cables (red, black) approximately 1m long with 4mm safety plugs; vacuum connection, two hose nozzles outer dia., 8 and 12mm. Electrical limit specifications: maximum voltage, 48V; maximum amperage, 12A. Dimensions (Dia. x H): Plate: 25.0 x 9.0cm; Bell jar: 19.0 x 22.0cm.

Cat. No.	Description	Price
S05534	Bell Jar	132.00/Ea

### Sterilizers

## Super Biohazard Disposal Bags

Protects against dangerous tears and leaks. SP Scienceware™ Super Biohazard Disposal Bags feature a sterilization indicator patch that darkens when exposed to steam sterilization for 20 minutes.

- Thickness: 2 mil/ 0.279mm
- Autoclavable to 121°C (250°F)
- Protect against dangerous tears and leaks
- Extra-heavy-duty bags are 2mil-thick blended polymer
- Sterilization indicator patch darkens when exposed to steam sterilization
- Orange-red bags have standard biohazard warning symbol and precautionary procedures in four languages: English, French, German and Spanish



**ORDERING INFORMATION:**  
Pack of 200 bags

Cat. No.	Length (English)	Width (English)	Price
S90149A	19 in.	14 in.	242.00/Pk
S90149C	35 in.	25 in.	649.00/Pk
S90149B	23 in.	19 in.	351.00/Pk

## Bench-Top Biohazard Bag Holder Kit

For collecting pipette tips, microcentrifuge tubes and more, during daily use.



- Autoclavable
- Available with epoxy coat in orange color
- Rectangular steel wire frame to hold one polyethylene bag of dimensions 8.5 x 11 in. (22 x 28cm)
- Comes with snug fitting polypropylene plastic cover to hold bag securely in place
- Reusable and allows cleaning by hand or in automated dish washers
- Also used with Clavies Autoclavable Bags H13182-0812

**INCLUDES:**  
Cover, Bag Holder, and 100 Bench Top Biohazard Bags, made of high molecular weight, high-density (HMHD) Polyethylene and printed with Biohazard symbol and sterilization indicator patch that darkens when exposed to steam sterilization.

**COMPLIANCE:**  
When used with lid, provides compliance with 29 CFR 1910.1030(d)(2)(xiii) (A), which requires a cover on any container used to store, transport or ship biohazardous wastes.

Cat. No.	Description	Price
S04788	Bag Holder Cover	12.00/Ea
S04788B	Poxygrid™ Biohazard Bag Holder Kit	51.00/Ea

## Bench-Top Biohazard Waste Disposal Bags

Bright red, autoclavable bags feature one long flap for easy opening and disposal of tips and tubes.

- 8½ x 11 in.
- HDPE
- Size allows the bag to be inverted over user's hand to safely pick up waste
- Printed with the biohazard symbol and sterilization indicator patch
- Constructed from high molecular weight, high-density (HMHD) polyethylene
- Pass ASTM 1922 Tear Resistance and ASTM 1709 Dart Impact Tests
- Steam autoclavable at 121°C (250°F)
- For space-saving waste disposal, use with Polxygrid™ Desk Model Bag Holder (Mfr. No. H13193-1000)



Cat. No.	Description	Price
S04788A	Benchtop Biohazard Waste Bag	25.00/Ea

## Steam Autoclave

Laboratory grade sterilizer for veterinary and laboratory applications.



- Internal temperature: 121°C
- Sterilization Cycle: 30 minutes
- Internal Dimensions: 9 in. dia. x 8 in. H
- External Dimensions: 15D x 12.5W x 13 in. H
- Thermally protective polymer construction
- Corrosion resistant, stainless steel chamber
- Power Requirements: 120VAC 60 Hz. 1250w, grounded cord
- Comes with low water and under and over temperature alarms
- Available with standard accessories including internal basket, seal and literature
- Load type: Solid, non-lumened, unwrapped non-medical instruments

- Capacity: 8L
- Pressure: 15psi
- Push-button operation
- For 120V 60Hz

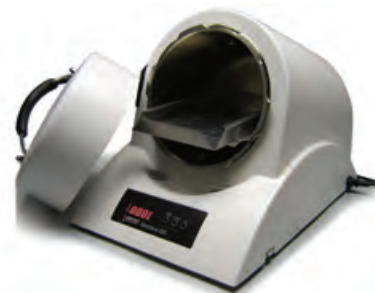
**Not approved by the FDA.**

**WARRANTY:**  
Two years

Cat. No.	Description	Price
S07885	Steam autoclave	751.00/Ea

## Saniclave Steam Autoclave

Saniclave 200 can sterilize wrapped or unwrapped solid, mated, hinged or knurled instruments without fail.



### ORDERING INFORMATION:

Internal dimensions: 9 x 10.5 in.  
(22.9 x 26.7cm)

### WARRANTY:

Two year warranty included.

### CERTIFICATIONS:

FDA listed (K112811), CE marked

Cat. No.	Description	Price
S05982	Steam Autoclave	1386.00/Ea
S05982P	Steam Autoclave with Printer	1547.00/Ea

- Compact, fully automatic steam autoclave
- With a digital timer, printer connection
- Simple push-button operation and digital display
- Under temperature and over temperature alarms
- Volume should be 10.9L
- Grounded cord, double insulated constructionA front loading, corrosion resistant, stainless steel chamber, and door make this steam sterilizer extremely easy to load and clean
- For 120V 60Hz
- Preheat Mode: Automatic
- Sterilization Time: 30 minutes
- Dry Mode: 30 minutes
- Printer: Zebra LP2844 recommended (printer not included)
- Capacity: 12.5L
- Maximum Load Configuration: 3.5 lb.
- Net Weight: 9.1kg (20lbs)
- Power Requirements: 120 VAC, 500 W, grounded cord
- Display: Digital time temperature and pressure
- Durability: Stainless steel chamber and rugged ABS enclosure

### RS-SC-200 Specifications

- Pressure: 15-18 psi
- Internal Temperature: 121-124°C
- Temperature Low Tolerance: 121°C
- Temperature Upper Tolerance: 124°C
- Dimensions: External: L x W x D: 16 x 13.5 x 21 in. (40.6 x 34.3 x 53.3cm)
- Internal: L x D: 12 x 9 in. (30.5 x 22.9cm)
- Safety Approvals: FDA listed (K112811), CE marked, IEC compliant

## Washers & Dryers

## Labconco™ SteamScrubber™ Laboratory Glassware Washer

The SteamScrubber Laboratory Glassware washer is flexible, energy-efficient glassware washer with maximum cleanability for washing and drying beakers and other wide-mouth or specialized glassware.

- One-piece, stainless steel, fine mesh particle drain filter
- Forced air drying into tank programmable up to 250 minutes and from 38-70° C (100-158° F)
- Steam generator produces hot vapor to soften dried contaminants for more effective cleaning
- 360° rotating upper, middle, and lower wash arms distribute water and detergent
- Separate pumps for washing and draining reduce potential for cross contamination
- Aluminum-backed insulation and fiberglass blanket for thermal and sound insulation
- Programs may be locked to prevent unauthorized changes
- Audible/visual alarms alert user to abnormal or unsafe events
- User-set delayed start (up to 8 hours)
- Built-in purified water pump to bring purified water into the tank for up to 6 pure water rinses
- Manual-fill detergent dispenser for powder or liquid detergent and rinse aid solution dispenser
- Optional clear tempered safety glass viewing window and 25-watt interior light that illuminates when door is latched
- Four leveling feet, 9052mm (0.375 in.) Female NPT inlet fitting for hot tap water connection
- Factory-installed drain hose and band clamp
- Pump rated at 363L/min. (96 gal./min.) when operated on 115V, 60Hz and 230V, 50Hz and 424L/min. (112 gal./min.) on 230V, 60Hz
- Drain pump to evacuate over 26L/min. (7 gal./min.)
- Operation at 58dB
- Standard open racks, Spindle racks, and most accessories are interchangeable between FlaskScrubber and SteamScrubber glassware washers



### REQUIRES:

Detergent, 20A circuit breaker, 9.52mm (0.375 in.) O.D. copper tubing for connection to water inlet valve, Purified water with supply piping minimum 9.52mm (0.375 in.) I.D. to permit at least 0.9gal. (3.4L)/min. flow

**WARRANTY:** 2 years parts and labor

### Specifications

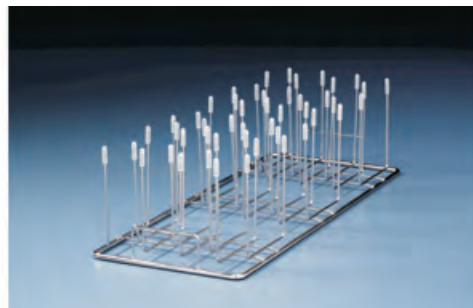
<b>Product Type</b>	Glassware Washer
<b>Material</b>	Type 304 stainless steel
<b>Inlet Water Temperature (Metric) Recommended</b>	60°C
<b>Water Consumption</b>	13L (3.4 gal.)
<b>Max. Pressure</b>	20-120psi (138-827KPa)
<b>Flow Rate</b>	4.7L (1.25 gal.)
<b>For Use With (Application)</b>	College and university, government, pharmaceutical, and industrial labs or any facility utilizing reusable glassware
<b>Certifications/Compliance</b>	UL 61010-1; CAN/CSA C22.2 No. 61010.1

Cat. No.	Description	Electrical Requirements	Includes	Description	Price
S28396	Glassware Washer	115V, 60Hz, 16A	Upper Standard (1) and lower Standard (1) open rack	Dimensions: 69.5D x 61.2W x 83.5 - 88.6cm H (27.4 x 24.1 x 32.9 - 34.9 in.)	8550.00/Ea

Spindle racks are available for increased flexibility with glassware types (sold separately)

## Labconco™ SteamScrubber™ and FlaskScrubber™ 48-Pin Labware Insert

For use with SteamScrubber™ and FlaskScrubber™ Laboratory Glassware Washer. Labconco SteamScrubber™ and FlaskScrubber™ Laboratory Glassware Washer Accessory, 48-Pin Labware Insert holds labware in inverted position for safe washing and drying.



- Forty-eight pins accommodate variety of labware
- Holds glassware and other labware in inverted position for thorough washing and drying
- Type 304 stainless steel
- Stainless steel pins have plastic tips to protect glassware from scratching
- May be placed in upper or lower Standard Open or Spindle Rack in FlaskScrubber or SteamScrubber

Cat. No.	Description	Price
S28370	48-Pin Labware Insert	191.00/Ea

## Lab-Aire™ II Labware Non-Electric Benchtop Drying Racks

For space- and budget-conscious labs.



Movable V-channel pegs can be repositioned to hold a variety of labware, including beakers, flasks, bottles, test tubes and cylinders.

- High storage capacity: up to 114 peg positions Single-sided benchtop models fit against a wall, conserving bench space
- Double-sided benchtop models provide double the capacity with a slightly larger footprint
- Wall-mount model has mounting points sized to fit standard pegboards to save counter space
- Width: 14.75 in./ 37.5cm

Cat. No.	Depth (English)	Positions	Height (English)	Price
S93964	5 in.	19	9.4 in.	115.00/Ea
S93963	10 in.	38	8.4 in.	223.00/Ea
S93961	7 in.	38	15.4 in.	248.00/Ea
S93962	7 in.	57	22.4 in.	311.00/Ea
S93960	10 in.	76	15.4 in.	341.00/Ea
S93970	10 in.	114	22.4 in.	490.00/Ea



**FISHER SCIENCE EDUCATION:**  
MAKING SCIENCE MATTER

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### Water Baths

## fisherbrand Isotemp™ General Purpose Deluxe Water Bath

Choose general purpose water baths, designed to provide consistent temperature for reliable results with easy-to-use operation

Ideal for industrial, clinical pharmaceutical or biomedical applications, Fisher Scientific™ Isotemp™ general purpose deluxe water baths provide powerful technology in a compact design. Isotemp water baths are designed to provide consistent temperature for reliable results with easy-to-use operation.



- Smaller footprint, compared to previous models
- Advanced temperature controller is designed for extended functionality
- Conveniently save commonly used settings with temperature presets
- Simple to operate and monitor with icon-based graphical display
- Enhanced hinge design supports open lid configuration and easy lid removal
- Help prevent bath damage and overheating with low-fluid protection
- New audible alarms
- For 120V 60Hz
- Capacity: 5L (1.3 gal.)
- Temperature range: Ambient to 100° C

Cat. No.	Description	Price
S28124	Isotemp 5L GP Bath	788.00/Ea



## Thermo Scientific™ Precision™ Shaking Water Baths

Shaking water baths support a range of sensitive life science and QA/QC applications, from warming fragile reagents to tissue culturing and genetics sequencing.

Thermo Scientific™ Precision™ shaking water baths support a range of sensitive life science and QA/QC applications – from warming fragile reagents to tissue culturing and genetics sequencing. Easily clean and maintain your bath with new coil-free interior. The Precision shallow form shaking bath has a removable tray that allows for use with smaller sample containers. Precision Dubnoff shaking water baths are designed specifically for applications that require your samples to be incubated in a controlled atmosphere.



- Easily clean and maintain bath with coil-free design
- Optimize scheduling with auto-on and auto-off timers
- Help prevent bath overheating and damage with low-fluid protection
- Conveniently save commonly used settings with four temperature and shaking speed presets
- Help protect your work with audible alarms
- Easily operate and monitor with icon-based graphical display
- Accommodate taller labware with new hinged lid and extended height
- Features next-generation shaker motor

### Specifications

Temperature Range (Metric)	Amb. +5°C to 100°C
Temperature Uniformity	±0.05 °C
Temperature Stability	±0.1 °C
Temperature Presets	4
Controller Type	Digital
Display	Monochrome LCD
Cabinet Material	Epoxy Powder Coated Cold Rolled Steel
Chamber Material	304 Stainless Steel
Includes	Stainless Steel Gable Cover, Shaking Tray, and Rubber Duck
Certifications/Compliance	UL, CE

Cat. No.	Model	Description	Bath Volume	Electrical Requirements	Price
S37368	Precision SWB 15	15L Shaking Water Bath	15L (4.0 GAL)	Global Voltage 100-115V/200-230V, 50/60Hz	2853.00/Ea
S37370	Precision SWB 15S	15L Shallow Shaking Water Bath	15L (4.0 GAL)	Global Voltage 100-115V/200-230V, 50/60Hz	4015.00/Ea

## Mini Pro Bath

Can be used to simply keep media warm or for other general-purpose laboratory applications.

Comes equipped with a heating indicator light and temperature regulator control knob.



- A fraction of the cost of other water baths that offer the same capabilities
- Wide flange extends over the top edge of the chamber to prevent water from leaking into and damaging the electronics
- Extra-wide base keeps bath from tipping over
- Rugged exterior resistant to dents and cracks
- Capacity: 0.5L
- Temperature range: Ambient to 100°C
- For 120V 60Hz

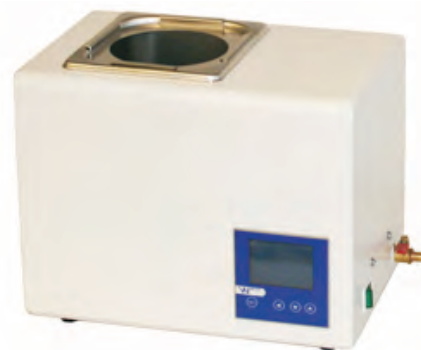
### WARRANTY:

Two-year, repair or replacement

Cat. No.	Description	Price
S99600	Mini Pro Bath	283.00/Ea

## Digital Water Baths

Features high precision PID temperature controls.



- LCD display allows user to select and monitor temperature setting
- Over temperature alarm provides reliable protection for samples
- Steel exterior with electrostatic coating
- Stainless-steel inner chamber, cover and concentric rings for corrosion resistance and durability
- Temperature range: 5° to 99°C
- For 110V 50/60Hz

Cat. No.	Description	Capacity (Metric)	Wattage	Price
S13155	Water Bath with Two Cover Openings	4L	500w	298.00/Ea
S13156	Water Bath with Four Cover Openings	8L	1000w	376.00/Ea



Water Purification

# Labconco™ WaterPro™ BT Type 1 Water Purification Systems

The WaterPro BT System is ideal for laboratories needing 1-10L/day, delivering both ultrapure Type I, up to 18.2 megohm-cm, and reverse osmosis (RO)-purified Type III water. Benchtop design is compact, lightweight and quick to install, WaterPro BT may be easily transported and shared among labs.



- Dispensing valve that dispenses >0.5L/min. Type I water by pressing dispense button
- RO-purified water storage tank 6L capacity
- Feedwater inlet tubing, 2.13m (7 ft.) long, with 1.27cm (0.5 in.) O.D. Male NPTM, BSPM or GAZ fitting and pre-filter screen
- RO reject tubing, 203.2cm (80 in.) long
- Distribution pump and continuous/intermittent recirculation
- Visual alarms including filter cartridge change after set time has expired or amount of water has been reached, resistivity less than setpoint, incorrect filter installation, and water detected in tank while in Flush mode
- Keypad for accessing display settings, function settings, and calibrations
- Rear-mounted tank outlet valve releases RO water from tank
- Maximum noise level (50dB) at distance of 1m (3.25 ft.)
- Thermoplastic housing with removable thermoplastic cover
- Optional 185/254nm UV lamp to remove bacteria and certain organics
- Optional remote dispenser to allow WaterPro BT to be placed up to 2m (6.5ft.) away from dispensing location
- Delivers ultrapure Type I, up to 18.2 megohm-cm at typical rate of >0.5L/min. at inlet water temperature of 25°C
- Delivers reverse osmosis (RO)-purified Type III water at rate up to 3L/hour (0.05L/min.)
- 115V 60Hz, 2A

**Feedwater requirements - Type I water:**

- Maximum inlet pressure - 87.0psi (6 bar)
- Minimum inlet pressure - 7.3psi (0.5 bar)
- Minimum Inlet Flow rate - 40L/hour (10.6 gal./hour)

**UV Model:**

- UV Lamp, 185 and 254nm

**Remote Dispense Model:**

- Remote Dispenser with 2m (6.5 ft.) tether
- White powder-coated steel dispenser stand

**INCLUDES:**

3m (10 ft.) clear tubing and 9.3mm (0.37 in.) I.D. hose barb for Type I dispensing valve; 8 x 8 mm elbow connector and 1m (3 ft.) of 8 mm tubing with ball valve for the tank outlet; and two each 1 micron Air Vent Filters

**REQUIRES:**

WaterPro BT Filter Pack (S28407)

**WARRANTY:**

1 year

**CERTIFICATIONS/COMPLIANCE:**

UL 61010-1; CAN/CSA C22.2 No. 61010.1; CE electrical safety and electromagnetic compatibility

Cat. No.	Depth (Metric)	Height (Metric)	Includes	Price
S28402	33.2cm	60.4cm	UV Lamp and Remote Dispenser	5975.00/Ea
S28403	42.1cm	53.8cm	UV Lamp	5505.00/Ea
S28404	33.2cm	60.4cm	Remote Dispenser	5470.00/Ea
S28405	42.1cm	53.8cm	N/A	4855.00/Ea

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## Thermo Scientific™ Demineralizer Cartridges

Special resin dye changes color when cartridge is exhausted.

Hose nipples on each end of these cartridges easily connect to your water supply with ordinary lab tubing (0.3 in. I.D. [9.5mm]). Resins in the deionization cartridge contain a special dye that changes color when the cartridge is exhausted.



### High-Capacity Cartridge

- Has a two-bed demineralizer with selected cation and anion resin beds
- Delivers more liters per cartridge than mixed-bed types
- Average resistance of effluent is 175kilohm-cm
- Total ion-exchange capacity is 1725 grains (as NaCl)

### UltraPure Cartridge

- Produces high-resistance demineralized water from tap water
- Increases purity of water from central demineralizer
- Total ion-exchange capacity is 1200 grains (as NaCl), 849 grains (as NaCl) to 1 megohm-cm endpoint
- pH is usually between 6.8 and 7.2
- Water is largely free of silica and CO<sub>2</sub>

Cat. No.	Description	Price
S50915	High-capacity Demineralizer Cartridge	158.00/Ea
S50914	Ultra-Pure Demineralizer Cartridge	158.00/Ea

## Thermo Scientific™ Deionizer

Easy to use.

Connects to water line through 35.8 in. (91cm) plastic tube. With inlet flow adjustment valve, drain valve and removable pedestal.

For 120V 50/60Hz.

- Delivers a continuous flow of demineralized water from 19 to 38L/hr.
- Meter shows resistance of effluent from 25,000 to 18,000,000 ohms-cm (indicates purity of high capacity or ultrapure cartridge effluent)
- Shows when to replace disposable cartridges

### High-Capacity Cartridge for Deionizer

- Provides ion-free water at minimum cost
- Removes 1870 grains as NaCl with endpoint of 50,000ohms
- Average resistance 175,000ohms/3ppm
- When new, pressure drops P1psi (6.8kPa) at 38L/hr.

**REQUIRES:** Filter



Cat. No.	Description	Price
S50816	19 to 38L/hr.	1287.00/Ea

## Lab Supplies

### Bench Protection

## fisherbrand Absorbent Underpads

High-absorbency fibers soak up spills.

- Quickly absorb liquids and keep spills from spreading
- Lie flat, hugging the benchtop to prevent sliding
- Cushioned surface minimizes breakage of delicate labware
- Polyethylene backing is chemical resistant
- Spunbond top layer provides durability even when wet
- Absorb up to 750mL/m<sup>2</sup>



Cat. No.	Dimensions (L x W)	Quantity	Price
S67011	24 x 20 in. (610 x 510mm)	50 Pack	73.70/Pk
S67013	100 ft. x 20 in. (30m x 510mm)	Each	90.60/Ea
S67012	36 x 20 in. (910 x 510mm)	25 Pack	63.20/Pk

## LabMat™ Bench Liners

Simplify cleanup and safeguard work surfaces from stains, spills and wear. Bel Art™ SP Scienceware™ LabMat™ Bench Liners can be rolled up and discard after contamination.



- Highly absorbent upper surface traps up to 420mL/m<sup>2</sup> of water, dyes, corrosive chemicals and radioactive solutions
- Flexible polyethylene film backing is nonskid and prevents soak-through of most solutions
- Cut to size easily with scissors or the Scienceware™ Safety Cutter (Mfr. No. 21012-0000)
- Roll up and discard in proper waste container after contamination
- Select orange to identify use with biohazard materials
- White
- 50 ft. x 20 in.

Cat. No.	Description	Price
S41267	Bench Liners	72.00/Ea

Bottles

## Right-to-Know, Safety-Vented Wash Bottles with GHS Labeling

Specially designed valve prevents pressure build-up, which eliminates potentially dangerous chemical drips; allows dispensing of wash bottle in upright or inverted position.

- Wide mouth 53mm (2 in.) for easy refilling
- Translucent LDPE bottles with color-coded caps for easy identification
- Pre-printed with chemical name and formula, GHS pictogram and signal word, National Fire Protection Association (NFPA) Section 704 Four-color Diamond, health hazards, Chemical Abstract System (CAS) number, and suggested protective clothing and equipment
- Bottles with labels that do not indicate a hazardous chemical do not have/require GHS pictogram or signal word
- Methyl Ethyl Ketone and Toluene do not include vented valve
- Assortment is 4/Bag, includes one each: Acetone, Isopropanol, Bleach, and Ethanol
- Sodium Hypochlorite is white LDPE for light-protection between 230 and 450nm



### COMPLIANCE:

Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and OSHA's HazCom 2012 requirements—as pertains to "Workplace Labels"

Cat. No.	Chemical Label	Color	Capacity	Price
S05122	Acetone	Red	500mL (16 oz.)	52.00/Pk
S05124	Acetone	Red	1000mL (33.81 oz.)	37.75/Pk
S05123	Assorted	----	500mL (16 oz.)	53.00/Pk
S05129	Deionized Water	Blue	500mL (16 oz.)	53.00/Pk
S05120	Distilled Water	Blue	500mL (16 oz.)	53.00/Pk
S05126	Distilled Water	Blue	1000mL (33.81 oz.)	37.75/Pk
S05130	Ethanol	Natural	500mL (16 oz.)	53.00/Pk
S05127	Isopropanol	Yellow	500mL (16 oz.)	53.00/Pk
S05121	Isopropanol	Yellow	1000mL (33.81 oz.)	37.75/Pk
S05128	Methanol	Green	500mL (16 oz.)	53.00/Pk
S05125	Sodium Hypochlorite (Bleach)	Yellow	500mL (16 oz.)	53.00/Pk
S05119	Water	Blue	500mL (16 oz.)	53.00/Pk

## Wash Bottle Carrier

For storage and transfer of up to six bottles.

- Holds both 8 oz. and 16 oz. bottles
- Molded of rugged and lightweight polypropylene which is autoclavable at 121°C (250°F)
- Chemical and corrosion resistant
- Wide handle fits gloved hand
- Dimensions of 28.6 x 19.4 x 22.5cm high (11.25 x 7.62 x 8.87 in.)



Cat. No.	Description	Price
S05118	Wash Bottle Carrier	59.00/Ea

## Eisco Polyethylene Wash Bottle

Polyethylene Wash Bottle with delivery tube, screw cap, and tube cap.

- LDPE
- 125mL

Cat. No.	Description	Price
S14091	Wash Bottle	1.55/Ea



## GSC Go Science Crazy Wash Bottle

Wash Bottle has a built in nozzle

- White
- LDPE
- Nonsterile

Cat. No.	Description	Price
S39015	150mL	1.65/Ea
S39016	250mL	3.05/Ea



## United Scientific™ LDPE Unitary Wash Bottles

Built-in delivery tube for one-piece wash bottle.

- Made of translucent and low-density polyethylene
- Graduated on outer surface to reflect approximate volume of solution filled or dispensed
- Do not autoclave



Cat. No.	Description	Price
S99408	250mL	44.25/Pk
S99409	500mL	52.75/Pk
S99407	125mL	33.00/Pk

## fisherbrand Wash Bottle with Adjustable Sprayer

Handles hot or cold, aqueous or solvent-based solutions.

- Capacity: 33.8 oz. (1000mL)
- Double-headed design
- Polyethylene and stainless steel
- Side-fill opening Adjustable spray pattern
- Engraved markings show how much fluid is left
- Trigger allows one-handed, controlled delivery with light pressure
- Squat shape takes up little bench space and ensures a low center of gravity
- 1000mL bottle dip-tube has an easy-access filter to prevent clogging



Cat. No.	Description	Price
S31735	Wash Bottle with Adjustable Sprayer	54.00/Ea

## fisherbrand Adjustable-Spray Mini-Wash Bottle

Comfortable and easy to use.

- Chemical-resistant
- Unbreakable
- High-density polyethylene bottle with polypropylene sprayer
- Capacity: 8.1 oz. (240mL)



Cat. No.	Description	Price
S413505P	Mini-Wash Spray Bottle	26.50/Pk

## Clear Narrow-Mouth Ground-Glass Stoppered Bottles

Feature no-drip pour lip

- Clear borosilicate glass bottle and stopper
- Octagon-shaped round glass stopper fits securely to prevent contamination
- Narrow mouth ideal for liquids
- Autoclavable



Cat. No.	Capacity	Closure Size	Diameter (Metric)	Height (Metric)	Price
S318731	250mL	19/26	145mm	72mm	359.00/Cs
S318741	500mL	24/29	175mm	88mm	375.45/Cs

## Precisionware™ High-Density Polyethylene Wide-Mouth Bottles

Ideal for packaging and storing of liquids and solids.

- Rigid, leakproof design with easy-to-fill wide mouth
- High-density polyethylene bottles with polypropylene screw closures
- Feature recycling code molded into base, except S95194



### ORDERING INFORMATION:

Pack of 12, except S95187, which comes in packs of 6

Cat. No.	Capacity	Diameter (Metric)	Closure Size	Price
S95194	125mL	48.2mm	38mm	36.00/Pk
S95195	250mL	58.4mm	45mm	47.00/Pk
S95196	500mL	72mm	53mm	66.00/Pk
S95187	1000mL	90mm	53mm	63.00/Pk

## Trigger Sprayers with 53mm Adapters

For adjustable spray dispensing of a wide range of chemicals including bleach, ethanol, machine oil and water.

- Polypropylene made and chemical-resistant
- With stainless-steel, spring-action pump in trigger sprayer
- Adapter fits any Scienceware bottle with 53mm wide closure
- Used for OSHA compliant 16 oz. and 32 oz. non-vented, wide-mouth wash bottles (series 11716 and 11732)
- Adds ~5.5 in. (14cm) height to bottle



Cat. No.	Description	Price
S04789	Trigger Sprayer; with 53mm Adapter	33.00/Pk

## Large Polyethylene Wide-Mouth Bottles

Available in two useful sizes.

- Large, polyethylene utility jars have hundreds of uses around the lab
- Natural color (white closures)
- Screw closure



### INCLUDES:

White metal screw caps

Cat. No.	Capacity	Closure Size	Material	Neck Finish	Price
S31944B	4000mL	110mm	Polyethylene	110	11.50/Ea
S31944A	2000mL	120mm	Polypropylene	120	7.35/Ea

## United Scientific™ Media/Storage Bottles

General purpose media bottles.

- Type 1, GL-45 borosilicate glass is autoclavable
- Permanent white imprinted graduations and marking spots
- Screw thread opening has I.D. of approximately 1.18 in. (30mm)
- Supplied cap is liner-less
- 30mm Cap and drip-free ring are polypropylene; autoclavable to 140°C (284°F)



Cat. No.	Capacity	Graduations	Height (English)	Price
S99415	100mL	20 to 80mL	3.93 in.	97.00/Cs
S99417	500mL	100 to 400mL	6.88 in.	116.00/Cs
S99418	1000mL	100 to 900mL	8.85 in.	171.00/Cs
S99419	2000mL	40 to 1800mL	10.31 in.	153.00/Cs



## PYREX™ Slim Line Storage Bottles

Provide easier handling and more efficient storage of media, biologicals, and other aqueous solutions. PYREX™ Slim Line Storage Bottles feature indented side grips that ensure easy handling, and are graduated to their full working volume. Their narrow profile occupies less space on shelves, refrigerators, and autoclaves.

- Indented gripping zones along the bottle sides allow easier and safer handling
- Caps are fully compatible with all standard GL45 (45mm neck size) Pyrex bottles
- New orange plug cap design permits faster opening and closing
- Widely-spaced knurls (ridges and grooves) provide comfortable and ergonomic cap handling
- Narrow bottle diameter allows more efficient storage on shelves, refrigerators, and autoclaves
- Bottles are graduated to their full working volumes



Cat. No.	Description	Price
S2-886-7	1000mL Storage Bottles	64.75/Cs

## PYREX™ Reusable Media Storage Bottles

Ideal for media, buffers, aqueous and nonaqueous solutions

- Borosilicate glass
- Graduated in mL increments
- Orange autoclavable polypropylene plug-seal caps
- Drip-free clear polypropylene pouring rings
- Withstand temperatures up to 140°C (284°F), included on sizes 50mL through 10L



### Pyrex Round Glass Storage Bottles

- 100mL through 2L sizes can be used with Corning Bottle Top Vacuum Filters

### ORDERING INFORMATION:

Optional red melamine caps and PTFE rings are available for applications requiring temperatures to 180°C (356°F).

### ⚠️ ALERTS:

**Bottles larger than 2L should not have caps tightened immediately after autoclaving, nor should they be used with bottle-top filter units or other applications involving vacuum pressure, as breakage may occur.**

Cat. No.	Capacity	Graduations	Price
S14255	100mL	40 to 80mL	117.00/Cs
S14256	250mL	50 to 200mL	129.00/Cs
S14257	500mL	100 to 400mL	153.00/Cs
S14258	1000mL	100 to 900mL	187.00/Cs
S14259	2000mL	400 to 1800mL	60.75/Ea
S14260	5000mL	500 to 4500mL	173.00/Cs

## PYREX™ Reagent Bottle with PYREX Hollow Standard Taper Stopper

Plain, narrow mouth bottles with ground necks and hollow glass stoppers.

- Well-suited for storing reagents, sera, vaccines, colloidal solutions and similar liquids
- Glass
- Hollow glass stopper
- Cylindrical
- Nonsterile



Cat. No.	Capacity	Height (Metric)	Height (English)	Stopper Number	Price
S31245	125mL	136mm	5.36 in.	19	180.00/Pk

## Graduated Media/Laboratory Bottle

Rugged space-savers.

- Heavy walls prevent breakage
- Sturdier than Erlenmeyer flasks
- Smaller diameter at base conserves space in sterilizers and freezers
- Large opening, special lip, sloping shoulders
- Graduated in mL to show approximate volumes
- Rubber-lined screw closure



### COMPLIANCE:

Meets USP Type 1 requirements.

Cat. No.	Description	Price
S02286C	1000mL Media Bottles	26.50/Ea

## fisherbrand Reusable Glass Media Bottles with Cap

Convenient wide opening

Ideal for general use.

- Enhanced graduations
- Permanent white enamel marking spot
- GL 45 screw thread
- Clear (natural), drip-free, replaceable polypropylene pour ring Linerless
- Autoclavable (to 140°C)
- Borosilicate glass
- Polypropylene cap



Cat. No.	Capacity (Metric)	Price
S35833	100mL	92.00/Cs
S35831	250mL	103.00/Cs

## Eisco Amber Glass Dropping Bottles

These amber glass dropping bottles are made from soda glass and include a threaded screw cap fitted with a rubber dropper. Ideal for storing light sensitive liquid solutions.

- Made of amber colored soda glass
- Includes threaded black screw cap fitted with rubber dropper
- Ideal for use with light-sensitive chemicals



Cat. No.	Capacity (Metric)	Price
S28019	30mL	1.55/Ea
S28020	60mL	1.85/Ea
S28021	100mL	1.95/Ea

## DWK Life Sciences Kimble™ Amber Glass Dropping Bottle

For storage of light-sensitive chemicals.

- Glass
- Polypropylene screw cap with rubber bulb
- Glass dropper inside
- Choose from 30 or 60mL capacity



### ORDERING INFORMATION:

Shipped in packs of 12.

Cat. No.	Description	Price
S31684	60mL Dropping Bottle	81.00/Pk

## Dispensing/Drop Bottle

Easy-squeeze bottles for critical drop control.

- Sealer cap snaps on easily
- Hold a tight seal even after repeated use
- Capacity: 250mL
- Tip opening: 0.030 in. (0.76mm)
- Made of low-density polyethylene



Cat. No.	Description	Price
S31705	Dispensing Bottle	51.00/Pk

## Polyethylene Dropping Bottle

Easy to fill bottle — remove closure.

- Narrow-mouth, low-density polyethylene bottle with LDPE dropping pipet
- Bellows-type dropping pipet is fixed to closure
- 30mL



Cat. No.	Description	Price
S31710	Dropping Bottle	47.75/Pk

## Long Spout Graduated Dropping Bottle

Low-density round polyethylene bottles with closure and spout.

- Graduated
- Can be secured using shoulder and cap tag to avoid sample contamination in transit
- Supplied with LDPE screw cap for tip closure
- An ideal bottle for water and oils as there are no shoulders to restrict the flow



### COMPLIANCE:

Conforms to DIN 13316 and 168.

Cat. No.	Description	Price
S01985	50mL Graduated Dropping Bottle	48.00/Pk

## Eisco Clear Glass Dropping Bottles

Can be used to store and dispense liquids.

- Made of soda glass
- With screw cap and fitted with dropper



Cat. No.	Capacity (Metric)	Price
S28016	30mL	1.30/Ea
S28017	60mL	1.70/Ea
S28018	100mL	1.85/Ea

## Sample Bottle with Plastic Snap Cap

Transparent soda-lime glass bottles for collecting, exhibiting, and transporting a wide variety of dry materials and specimens.



- For lab or field use
- Polyethylene cap snaps over special sealing ring to form an effective moisture barrier
- Ideal for hygroscopic materials

Cat. No.	Capacity	Diameter (English)	Closure Size	Height (English)	Price
S31757	12mL	0.86 in.	22	2 in.	418.00/Cs

## fisherbrand Clear Standard Wide Mouth Bottles with White Polypropylene Pulp/Vinyl Lined Cap

General purpose bottle. Fisherbrand™ Clear Standard Wide Mouth Bottles with White Polypropylene Pulp/Vinyl Lined Cap are used for pharmaceutical, chemical, environmental, and food packaging and storing applications.

Clear / Flint Standard Wide Mouth Bottles feature a wide opening making them the ideal general purpose bottle. Applications include pharmaceutical, chemical, environmental, and food packaging and storing.



- Made of flint glass
- Lids are flat, disc-type and polyvinyl-lined black phenolic
- Wide opening, ideal for general purpose
- Applications include pharmaceutical, chemical, environmental, and food packaging and storing

### ORDERING INFORMATION:

Available in convenient cartons with full-height partitions, top pad and pressure-sensitive labels. Caps are applied individually prior to packaging.

Cat. No.	Capacity (Metric)	Price
S31666-F	120mL	34.25/Cs
S31667-F	250mL	41.00/Cs

## United Scientific™ Bottle Top Dispensers

Complete with five additional adapters (28mm, 32mm, 36mm, 40mm and 45mm) for use right out of the box.

- Feature a 30mm thread
- Highly accurate
- All wetted parts are made from PTFE and borosilicate glass for maximum chemical resistance
- Autoclavable



Cat. No.	Volume Range	Accuracy	Increments	Precision	Price
S04552	0.5 to 5mL	±0.5%	0.1mL	±0.1%	368.00/Ea
S04616	0.25 to 2.5mL	±0.6%	0.05mL	±0.2%	368.00/Ea
S04553	1 to 10mL	±0.5%	0.2mL	±0.1%	368.00/Ea
S04554	2.5 to 30mL	±0.5%	0.5mL	±0.1%	450.00/Ea
S04555	5 to 60mL	±0.5%	1mL	±0.1%	450.00/Ea

## Eisco Tall Form Weighing Bottle with Stopper

Premium borosilicate glass weighing bottle.

- Tall form
- 15mL capacity
- 25 x 50mm
- With interchangeable ground stopper



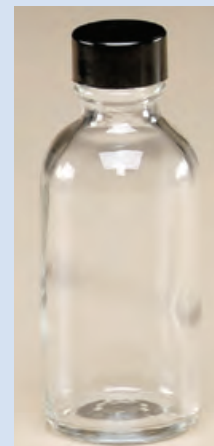
Cat. No.	Description	Price
S13957	Tall Form Weighing Bottle with Stopper	7.30/Ea

## fisherbrand Clear Boston Round Bottles with White Polypropylene Pulp/Vinyl Cap

For storing liquid samples. Fisherbrand™ Clear Boston Round Bottles with White Polypropylene Pulp/Vinyl Cap are clear for easy viewing of contents.

Clear Glass Boston Round Bottles are excellent general use bottles ideal for when content integrity and sample or product visibility is important. Boston Round bottles feature a narrow screw neck opening, curved shoulders, and a round body. Glass offers minimal chemical interference with contents; clear (flint) glass is appropriate when visibility is important but protection from UV rays is not necessary. These environmentally sensitive bottles help eliminate waste and help to insure product integrity for long term storage.

- Excellent general use bottles ideal for when content integrity and sample or product visibility is important
- Narrow neck screw opening
- Curved shoulders and a round body
- Minimal chemical interference
- Clear glass for visibility
- Help eliminate waste and insure product integrity for long-term storage



Cat. No.	Capacity (Metric)	Price
S31842-F	500mL	22.00/Cs
S31840-F	125mL	52.00/Cs

## Eisco B.O.D. Borosilicate Glass Bottle with Stopper

Eisco 125ml B.O.D. borosilicate glass bottle with stopper



Cat. No.	Description	Price
S27991	B.O.D. Borosilicate Glass Bottle with Stopper	6.90/Ea

## Polyethylene Indicator Bottles

Double-duty bottles offer two ways to assist in staining slides

- Can be used as squirt bottles with the supplied tube and as dropper bottles when the tube is removed
- Low density polyethylene (LDPE) construction
- Excellent for use with indicator solutions or dyes
- Do not autoclave



Cat. No.	Capacity (Metric)	Price
S31707	30mL	37.00/Pk
S31708	60mL	42.00/Pk

## Brushes

### Camel Hair Brush with Long Handle

Useful for dusting balances.



- Slightly pointed tip 0.75 in. (1.9cm) max. diameter, 1 in. (2.5cm) long
- Full body tapers toward handle
- Overall length: 9 in. (22.8cm)

Cat. No.	Description	Price
S30423	Camel Hair Brush	8.10/Ea

## Eisco Beaker Brushes

With 15.75 in. (40cm) wooden handle.



- Choice of bristle or nylon
- Dimensions: 2.6 × 1.8 × 5.9 in. (65 × 45 × 150mm)

Cat. No.	Bristle Material	Price
S95943	Bristle	13.75/Ea
S95942	Nylon	15.25/Ea

## Flexible Brushes

Soft, single row of bristles fits easily into flask necks.



- Plastic handle bends to allow bristles to fit into container
- Handle has hanging ring

Cat. No.	Length (English)	For Use With (Equipment)	Price
S30410A	11.8 in.	250mL flasks	6.30/Ea
S30410B	14.17 in.	500mL flasks	6.50/Ea
S30410C	16.9 in.	1000mL flasks	7.90/Ea

## Cleanware™ Bottle Brush

Uniquely designed, swiveling pivot head enables thorough cleaning of bottles and flasks including difficult curves and corners

- Thoroughly cleans glass and plastic labware without scratching
- Swivel head fits through a 29/42 standard taper neck, or any non-tapered neck with a diameter of 24mm (1 in.) or larger
- Brush head is slightly convex, 45 x 21mm (L x W) with bristles 8mm long
- Brush head is attached to hardwood handle 37cm long x 7mm diameter
- Features natural bristles, swivel head and small brush head

Cat. No.	Description	Price
S90135	Cleanware Bottle Brush	68.00/Ea



## Nessler Tube Brushes

For low-form Nessler tubes.



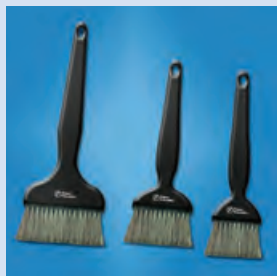
- Radial, double-fan tip
- Full bristles make complete contact with walls and bottom of cylinder
- Galvanized wire handle

Cat. No.	Color	Length (English)	Length (Metric)	Price
S30435A	Natural	12 in.	30.5cm	2.40/Ea
S30435B	Black	20 in.	50.8cm	6.25/Ea

## fisherbrand Anti-Static Static-Away™ Handle Brushes

Designed with the softest hairs available to prevent scratching.

Ideal for dusting balances, cuvetts, microscope slides, optics and instrument and computer screens.



- Removes static charges as it brushes
- Conductive composite handle
- Long handle allows access to difficult places
- Eliminates the possibility of a hand touching

### Specifications

<b>Product Type</b>	Anti Static Brush
<b>For Use With (Application)</b>	Ideal for dusting balances, cuvetts, microscope slides, optics and instrument/computer screens, designed with the softest hairs available to prevent scratching
<b>Weight (English)</b>	0.5 oz.
<b>Weight (Metric)</b>	14.17g

Cat. No.	Length (English) Brush	Length (English) Handle	Length (Metric) Brush	Length (Metric) Handle	Price
S98210	1 in.	5 in.	2.54cm	12.7cm	23.50/Ea

## United Scientific™ Test Tube Brush

Straight brush top.

- Good quality nylon bristles
- Mounted in twisted heavy gauge galvanvanized wire

### ORDERING INFORMATION:

Overall Length: 9 in. (22.9cm); Brush (L x Dia.): 3 x 1 in. (7.6 x 2.5cm)



Cat. No.	Description	Price
S30420A	Test Tube Brush	18.00/Pk

## United Scientific™ Test Tube Brushes, Nylon Bristles

For effective cleaning of test tubes in laboratories. United Scientific Test Tube Brushes, Nylon Bristles are mounted in twisted heavy gauge galvanvanized wire.



- Feature radial top
- Available in different sizes

Cat. No.	Overall Length (English)	Length (English) Brush	Price
S13068	8 in.	3 in.	12.50/Pk
S13070	11 in.	4 in.	17.75/Pk



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## Burets

## Eisco Acrylic Buret

Transparent acrylic body and leakproof PTFE plunger stopcock.

- Acrylic body is unaffected by dilute minerals, acids and bases except hydrofluoric acid and ammonium hydroxide
- Capacity: 50mL
- Subdivisions: 0.10mL
- Tolerance:  $\pm 0.10\text{mL}$



## Eisco Straight-Bore Burettes with Blue Graduations

These high quality borosilicate burettes are straight bore with interchangeable PTFE key stopcocks.

Cat. No.	Description	Price
<b>Class A</b>		
S15482	25mL	16.25/Ea
<b>Class B</b>		
S15484	50mL	19.50/Ea
S15485	100mL	21.25/Ea



Cat. No.	Description	Price
S95180A	Acrylic Buret	19.00/Ea

## Eisco Graduated Burettes

With graduations in blue.

- With straight bore interchangeable PTFE key stopcock
- Class A
- Capacity: 100mL



Cat. No.	Description	Price
S13964	Graduated Burettes	19.50/Ea

## Eisco Buret Rack

Excellent solution for storing and protecting burets in the lab.

- Natural wood buret rack accepts 12 burets of 50mL capacity, up to 0.75 in. dia. (2cm)
- Design allows burets to be fitted in and removed very easily
- Can be mounted on lab wall



## ORDERING INFORMATION:

Dimensions: 32 x 3 x 23.5 in.  
(81.3 x 7.6 x 59.6cm)

Cat. No.	Description	Price
S04316	Buret Rack	48.00/Ea

## GSC Go Science Crazy Glass Burette with PTFE Stopcock

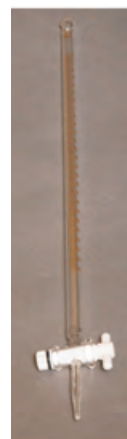
Avoid hassles by choosing a burette with a stopcock that won't freeze. The GSC International Glass Burette with PTFE Stopcock is subdivided by 0.1 ml, does not require grease and is nearly freeze proof.

- The PTFE stopcock is almost freeze proof and does not require grease
- Subdivided by 0.1 ml
- Made from borosilicate glass

## DISCLAIMERS:

Not a toy. Product intended for ages 13 and up.

Cat. No.	Capacity (Metric)	Price
S04882B	100mL	142.00/Pk
S04822A	50mL	24.25/Ea
S04822	25mL	94.00/Pk



## United Scientific™ Burettes, Class B, with Straight Bore Glass Stopcock

For general laboratory use. United Scientific Burettes, Class B, with Straight Bore Glass Stopcock are made from better quality accurate bore tubing to provide high degree of accuracy, reliability, and durability.

- Feature straight bore glass stopcock
- Graduations are in resilient white enamel
- Accuracy as per class "B"



Cat. No.	Capacity (Metric)	Tolerance (Metric)	Graduations	Price
S13073	50mL	0.10mL	Interval: 0.10mL	26.50/Ea

## GSC Go Science Crazy Mohr's Burets

For use with a pinchcock.

- Borosilicate glass
- Graduated 1mm divisions
- Reinforced tip for rubber connection



Cat. No.	Capacity (English)	Capacity (Metric)	Price
S32211	0.84 oz.	25mL	126.00/Pk
S32212	1.69 oz.	50mL	23.25/Ea
S32213	3.38 oz.	100mL	42.75/Ea

## ValueWare Buret with Threaded Closure Fit

Designed with threaded closure, which eliminates accidental dislodging of the stopcock assembly during use.

- With straight bore
- Modular design
- Dust cap included
- Assembly should be wetted before installation
- Ground tip fits into lower end of PTFE stopcock
- Glass stopcock
- 0.1mL graduations
- Includes dust cap
- Class B

Cat. No.	Capacity	Length	Price
S01518	25mL	42mm	60.50/Ea
S01519	50mL	72.5mm	113.00/Ea

## ValueWare™ Buret

Designed for use in educational institutions and for many general laboratory procedures.

- Black scale
- Straight PTFE stopcock
- Capacity: 50mL
- 0.1mL graduations
- Length: 73mm



Cat. No.	Description	Price
S01517	Buret	63.75/Ea

## Burets with Stopcock and Dust Cap, Class B

Feature a 0.07 in. (2mm) PTFE straight bore stopcock plug.

- Scale is durable black ceramic enamel
- Designed from ASTM Specification E287, Class B requirements
- Capacity: 50mL
- 0.1mL subdivisions
- PTFE stopcock



### INCLUDES:

Protective dust cap

### CERTIFICATIONS:

ASTM E287, ASTM E694, ASTM E542, USP Type I, ASTM E438, Type I, Class A

Cat. No.	Description	Price
S32277	Burets with Stopcock and Dust Cap	164.00/Cs

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## Burners

## Eisco Bunsen Burners

Prevent easy tipping, even with hoses connected.

- Spaced feet so burner fits comfortably under stands
- Carry hot burner with ease and safety using finger handle

**Basic**

- Without flame stabilizer or throttle control, but have air flow adjustment sleeve
- 15.2cm (6 in.) tall

**With Flame Stabilizer**

- Controls air to fuel ratio via air flow adjustment sleeve; However, it does have flame stabilizer which makes it safer in laboratory setting
- 16.5cm (6.5 in.) tall

**With Flame Stabilizer and Gas Adjustment**

- Allows both air to fuel ratio adjustments and throttle control via gas adjustment needle valve.
- 16.5cm (6 in.) tall

**Meker**

- Designed to produce an extremely hot and stable flame.
- Based on the principle that the hottest point of a flame is the outer tip of the inner flame
- Features grid that separates flame into an array of much smaller flames, creating many more “outer tips” or zones of highest temperature
- This allows for average temperature of flame to rise from 935° to 1180°C

**Tirrill**

- Features wing nut on bottom of tube for gas adjustment and tube screws for fine adjustment of air to fuel ratio.

**Accessory**

- Features neoprene tubing
- Connect burners to gas source
- 60cm (23.6 in.) long

Cat. No.	Description	Price
<b>Basic</b>		
S12805	Natural Gas Burner	18.25/Ea
S12806	Liquid Propane Burner	18.50/Ea
<b>With Flame Stabilizer</b>		
S12807	Natural Gas Burner	22.75/Ea
S12808	Liquid Propane Burner	16.75/Ea
<b>With Flame Stabilizer and Gas Adjustment</b>		
S12809	Natural Gas Burner with Gas Adjustment	25.75/Ea
S12810	Liquid Propane Burner with Gas Adjustment	25.75/Ea
<b>Merker</b>		
S12815	Natural Gas Burner	72.50/Ea
S12816	Liquid Propane Burner	72.50/Ea
<b>Tirrill</b>		
S12813	Natural Gas Burner	30.25/Ea
S12814	Liquid Propane Burner	31.00/Ea
<b>Tirrill with Gas Control</b>		
S13938	Natural Gas Burner	31.75/Ea
<b>Accessory</b>		
S12817	Connecting Hose	18.75/Ea

## Meker-Type Burner

Provide extremely hot flame.

High-temperature Meker-type burners are for use when an extremely hot flame is required. The Meker cap forms many short, small and uniform blue cones (no cold cones).

- Specifically designed to prevent back-flashing — an important safety feature
- One-piece nickel-plated Venturi tube and an octagonal base of heavy, die-cast nickel-plated zinc alloy
- Base measures 3.5 in. (8.75cm) in diameter
- Height: 8.5 in. (21.6 cm)
- Capable of heat output in excess of 12,000 BTU per hour
- Wing top is not available for this burner
- Tubing size: 0.37 in. (9.5mm)

**INCLUDES:**

One-piece, nickel-plated venturi tube, die-cast, zinc alloy, nickel-plated octagonal base

Cat. No.	Description	Price
S49123	Meker-Type Burner	78.00/Ea

## fisherbrand Alcohol Burner

For use with any experiment requiring low heat.

- Polished metal alcohol burner
- Flame can be easily adjusted by rotating ratcheted wick control wheel
- With air cap attached by matching polished chain
- Safer than glass burner
- Dimensions: 4.5 × 3 × 4.5 in. (11.43 × 7.62 × 11.43cm)
- Capacity: 150mL
- Weight: 0.5 lb. (0.22kg)
- Replacement wicks also available (Cat. No. S05050)



Cat. No.	Description	Price
S41898B	Alcohol Burner	29.00/Ea



## Lab Micro Burner

No need for lighter, wicks, matches or gas line.

Replaces spirit lamps.



- Portable burner offers large base for stability and tip resistance
- Uses clean-burning butane cartridges; one cartridge burns for 1 hour, 30 minutes (refills available separately, S95556A)
- Solid-state push-button ignition system eliminates need for lighter
- Very portable
- Adjustable flame size
- Maximum temperature of 1100°C (2000°F)
- Extra-large tank (2.6 oz. [76mL])
- Optional Burner Stand (S95555) available with adjustable plate to hold beakers

### ORDERING INFORMATION:

Dimensions: 5.3L x 3.2W x 3.4 in. H (13.4 x 8.0 x 7.6cm).

Cat. No.	Description	Price
S95554	Micro Burner	56.50/Ea

## Butane Micro Burner

A safe alternative to alcohol burners.

This small butane burner uses clean burning butane and features a trigger ignition, eliminating the need for wicks, matches or a central gas line.



- Stable, tip-resistant design and easy-grip handle make the burner safe and portable
- Flame height is fully adjustable
- Maximum temperature of approximately 1300°C (2372°F)
- Two-hour fuel capacity
- Compatible with standard butane cartridges

### Optional Accessories (Not Included):

- Locking Tripod Stand (S65024)
- Butane Refill (S64968)

Cat. No.	Description	Price
S65148	Butane Micro Burner	68.90/Ea
S64968	Butane Fuel Refill; 3.38 oz. (100mL) Can	7.30/Ea

## MAX-850 Portable Bunsen Burner

Built-in fuel chamber can be refilled with standard butane canister.

Single-trigger-activated electronic auto ignition.



- Will not flare in any position, so it can also be used as a portable burner
- Adjustable flame size — control flame with ON/OFF safety switch or set for a continuous flame
- Full temperature control — produces temperatures well over 1371°C (2500°F)
- One filling provides over one hour of burning time
- Durable metal body construction
- Dimensions: 5.5 x 3.5 x 8 in. (14 x 8.9 x 20.3cm)

### INCLUDES:

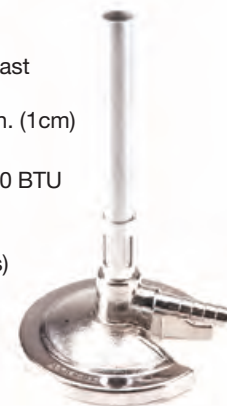
Stand

Cat. No.	Description	Price
S90304	Portable Bunsen Burner	66.60/Ea

## Straight-Tube Bunsen Burner

Noiseless burners allow separate control of both flame temperature and flame height.

- Threaded-aluminum air-control sleeve
- Accurately machined, fine-pitch brass needle valve with internal stuffing box and self-sealing packing
- Quick adjustment provides a clear flame of any height between 0.5 to 12 in. (1.3 to 30.5cm)
- Completely rustproof
- Octagon-shaped, nickel-plated, die-cast base, 3.5 in. (8.9cm)
- Tapered and serrated gas inlet, 0.39 in. (1cm)
- Aluminum mixing tube
- Burners will produce in excess of 5000 BTU per hour at full valve opening
- Gas inlet/tubing size: 0.31 in. (11mm)
- Gas Type: LPG (Liquid Petroleum Gas)
- Heat Value: 2000 to 3200 cu. ft.
- Height (English): 6 in.



Cat. No.	Description	Price
S49108	Straight-Tube Bunsen Burner	35.25/Ea

## Butane Fuel

Can be used with most refillable butane products.

- Universal filling tip
- Double scrubbed
- Triple filtered for trouble-free use in all butane tools
- Hang tab
- Capacity: 192mL (6.5 oz.)



Cat. No.	Description	Price
S04147	Butane Fuel	10.00/Ea

## GSC Go Science Crazy Alcohol Burner with Dual Wicks

A great addition to any lab in which a small burner is needed.

Made of durable metal to prevent breakage. The GSC Alcohol Burner with Dual Wicks is an all metal, permanent wick alcohol burner with a capacity 100ml tank. The wick portion is a ceramic fiber inserted into a thin copper tube. This construction allows for constant flame. The burner is fueled by high quality alcohol which can be found in most local hardware stores.

- All metal to prevent breakage
- Holds 100ml of alcohol
- Constant flame construction
- Ceramic fiber wick



Cat. No.	Description	Price
S13728	Alcohol Burner with Dual Wicks	14.00/Ea

## Butane-Powered Micro Burners

Provide safe, portable flame applications in a variety of settings.

Self-contained and require no wicks to replace or gas lines to install.

- Automatically ignite
- Tip-resistant wide base
- Refillable
- Reach temperature of up to 1315.6°C (2400°F)

Work continuously for one hour on maximum setting



Cat. No.	Description	Price
S04140	Burner, Straight Flame	54.25/Ea

## United Scientific™ Clay Pipe Triangle

Mounted on heavy gauge twisted galvanized steel wire.



- General laboratory supplies
- Individually packed in poly bags, and chip board boxes

Cat. No.	Length (English)	Price
S12863	1.5 in.	0.95/Ea
S12864	2 in.	1.30/Ea

## Self-Contained LPG Burner

Handy where natural gas is not available.

- Butane burner produces a clean 0.5 × 3.5 in. (1.3 × 8.9cm) flame at 3000°F
- Flame temperature and size can be changed by adjusting the air regulator ring
- Fits under a 9 in. (22.9cm) tripod
- Provides up to 5 hours, 30 minutes of continuous use

- Size: 0.341 lb. (155g) of butane fuel
- Height: 8.75 in. (22.9cm)
- Convert burner from Bunsen to fishtail to Meker-type flame using wing-type spreader (S41874) and Meker adapter (S41876)

Cat. No.	Description	Price
S41872	Butane Burner	54.25/Ea
S41873	Fuel Canister	15.75/Ea
S41876	Meker Adapter	44.75/Ea



## United Scientific™ Tripod Stands

Available with or without concentric rings.

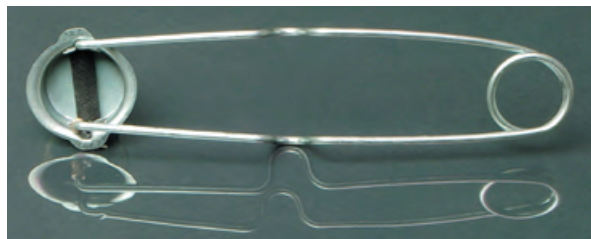
- Cast-iron ring with black enamel finish
- Detachable zinc-plated legs are interchangeable
- Stands can be ordered in any combination of ring O.D. and height



Cat. No.	Diameter (English) Rod	Height (English)	Price
S99436	6 in.	9 in.	11.50/Ea
S99432	3.5 in.	6 in.	10.50/Ea

## United Scientific™ Gas Lighter

Hooded lighter is safe and economical.



- Hood traps gas and protects lighting file
- Replacement flints are available

Cat. No.	Description	Price
S99453	Gas Lighter	4.10/Ea
S99442	Replacement Flints	3.35/Ea

## Cloth-Covered Burner Tubing

Standardize each connection in your lab for the safest burner connections.



- Cloth-covered, flexible rubber tubing
- Each length has heavy rubber connections on each end that firmly attach to fitting

Cat. No.	Overall Length (English)	Price
S49140	2 ft.	22.05/Ea
S491411	3 ft.	30.25/Ea
S49156	4 ft.	33.30/Ea

## Refillable Multipurpose Butane Lighter

With one pull of the trigger, the piezoelectric ignition of this butane gas lighter will give you a reliable flame every time.

- Stainless-steel safety extension and adjustable flame control keep hands a safe distance from the flame
- Child-resistant lock system for added safety
- Visible fuel level window allows you to see when fluid must be refilled
- Refillable with standard butane lighter refills



Cat. No.	Description	Price
S65023	Refillable Multipurpose Butane Lighter	3.95/Ea

## GSC Go Science Crazy Heat Insulated Ceramic Pads

Keep your surfaces safe from hot items. The GSC International Heat Insulated Ceramic Pads are made from flexible alumina and silica oxides.



- Keep your surfaces safe with a product that has low thermal conductivity
- Made from flexible alumina and silica oxides with small amounts of organic binder
- Useful for protecting surfaces while working with hot items like crucibles or flasks

Cat. No.	Description	Price
S04816	4 × 4	100.00/Pk
S04816A	5 × 5	123.00/Pk
S04816B	6 × 6	172.00/Pk
S04816C	8 × 8	198.00/Pk
S04816D	10 × 10	245.00/Pk
S04816E	12 × 12	269.00/Pk

## United Scientific™ Wire Gauzes with Ceramic Center

Used for general heating purposes in laboratories.

- Iron wire gauze (24 SWG/10 Mesh) with folded edges
- Contains no asbestos
- Sold as packs of 10
- 12.7 × 12.7cm (5 × 5 in.)



Cat. No.	Description	Price
S12866	Wire Gauzes with Ceramic Center	9.70/Pk

## Carboys

## Dispensing Jug

Dispense directly from 5 gallon graduated jug without lifting or moving.

Stores and dispenses common solutions, including janitorial cleaners, deionized/distilled water or other aqueous liquids.



- Gasketed and threaded LDPE spigot extends 125mm from jug
- 35mm long stem for dispensing
- Top opening: 70mm I.D. for fast re-filling
- Built-in 44mm high handle provides for easy transport
- Made from strong and lightweight HDPE
- Dimensions: 25cm (9.88 in.) sq. x 38cm (15 in.) high; shipping weight 1.7kg (3.7 lb.)
- Capacity: 18.9L (5 gal.)

Cat. No.	Description	Price
S31765	Capacity: 5 gal.	53.00/Ea

## United Scientific™ Polypropylene Carboys with Stopcock

Ideal for storing and dispensing various laboratory solutions.



- Features preassembled leak-proof stopcock
- Autoclavable, threads should be totally disengaged before autoclaving
- Available in 10L and 20L capacities

Cat. No.	Capacity	Price
S13108	20L	86.00/Ea
S13107	10L	58.50/Ea

## Carboys and Large Bottles

Range of high-performance large bottles and carboys.

- Autoclavable polypropylene™, heavy-duty construction
- Stylish rounded octagonal shape for increased rigidity when full
- Offset neck for easier filling and pouring

Cat. No.	Capacity (Metric)	Price
<i>Carboys with Spigot</i>		
S01989	5L	76.00/Ea
S01989A	10L	105.00/Ea
S01989B	20L	126.00/Ea
<i>Large Bottles (No Spigot)</i>		
S01989C	5L	46.75/Ea
S01989D	10L	77.00/Ea

- Integral, comfortable blow molded handles for ease of carrying, are end-sealed to prevent contamination
- Heavy-duty closures
- Carboys feature a durable and leakproof heavy-duty spigot with boss fitting for extra strength
- Spigot features removable tube fitting for added convenience
- Molded graduations allow easy viewing of contents



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Carts

### fisherbrand Laboratory Carts

Transport a variety of lab supplies, equipment and containers. Fisherbrand Laboratory Carts come fully-assembled from the factory and have a five-year warranty.

- Durable blue, powder-coated 18-gauge welded tubular steel frame
- Pans are polished type 304 Stainless Steel
- Powder-coated steel watertight pans are 5cm (2 in.) deep, removeable and lined with gray rubber mats to prevent shifting
- Lower shelf also has guard rails on both ends
- Includes 2, 4 vinyl-coated wire baskets and 1 removeable plastic drip pan to catch spills
- 4 in. diameter casters, 2 with toe locks
- Has ID tags
- Supports loads up to 181kg (400 lb.)
- Ready-to-roll, full factory assembly
- Ergonomic, extruded rubber handle grips



Cat. No.	Weight (English)	Includes	Product Type	Price
S14240	58 lb.	Two removable polished type 304 stainless steel pans that are 2 in. deep on three sides with one open side	Laboratory Cart	697.00/Ea
S14243	58 lb.	Two 2 in. deep epoxy-coated steel, removable watertight pans, lined with removable gray rubber mats	Pan Cart	764.00/Ea
S14241	----	2 vinyl-coated wire baskets (18L x 32W x 4 in. H) Four - 4 in. diameter casters, two with toe locks Removable Plastic Drip Pan	Glassware Cart	697.00/Ea
S14242	----	4 vinyl-coated wire baskets (18L x 16W x 4 in. H) Four - 4 in. diameter casters, two with toe locks Removable Plastic Drip Pan	Glassware Cart	697.00/Ea

### Utility Carts

- User-friendly easy-to-grip handles
- Easy to clean smooth surfaces
- Nonmarking swivel casters



Cat. No.	Description	Price
S94861	Enclosed End Panels, 150 lb, Black	389.80/Ea
S94862	Three Shelf, 200 lb, Platinum	459.84/Ea

### Heavy-Duty Utility Cart

Handles large loads with ease

- Load capacity: 500 lb. (227kg)
- Sturdy, structural foam construction won't rust, dent, chip or peel
- Rounded corners protect walls and furniture
- Lightweight and maneuverable
- Nonmarking 5 in. dia. casters (two fixed, two swivel)
- Two sizes available
- Two shelves
- Beige



**ORDERING INFORMATION:**

Small cart L x W x H:  
39 x 17.88 x 33.25 in.  
(99 x 45.4 x 84.5cm).  
Large cart L x W x H: 45.25 x 25.88 x 33.25 in.  
(115 x 65.7 x 84.5cm).  
Optional middle shelf available for both sizes.

Cat. No.	Size	Price
S68057	Medium	377.93/Ea

## Clamps and Supports

## fisherbrand Castaloy™ Adjustable Angle Clamps

Grip rods up to 19mm diameter.

Holding angle of jaw is adjustable and can be locked with a wingnut.

- For use with irregular shapes
- With 16mm clamp extension and 57mm maximum grip size
- Length: 0.62 in. (16mm)



**INCLUDES:**  
Vinyl and fiberglass sleeves

Cat. No.	Description	Price
S477653Q	Adjustable Angle Clamps	83.00/Ea

## Eisco Die-pressed Burette Clamp

With built-in boss head.

- Holds two burettes
- Sheet metal



Cat. No.	Description	Price
S23639	Die-Pressed Burette Clamp	8.55/Ea

## Eisco Double Burette Clamp

Suited to hold two burettes up to 100mL.

- Metal construction for high strength
- With jaws and rubber projected tips



Cat. No.	Description	Price
S07858	Double Burette Clamp	13.75/Ea

## Eisco Premium Boss Heads

Choose durable lab equipment that will last for years.



- Threaded metal one piece clamping screws
- All metal constructions to carry heavy loads and prevent torque damage

Cat. No.	Description	Price
S13920	Holds rods orthogonal (90 degrees) to one another; Holds rods up to 15mm diameter	7.50/Ea
S13922	Adjusts to any angle; Dual 360 rotation; Holds rods up to 16mm diameter	9.20/Ea
S13923	Holds rods up to 15mm diameter	8.00/Ea

## Eisco Boss Head

Blue plastic headed screws.



- For use with laboratory stand
- Diecasted alloy
- Accepts rods upto 16.5mm diameter at right angle to each other

Cat. No.	Description	Price
S99387	Boss Head	4.90/Ea

## GSC Go Science Crazy Single Burette Clamp

A clamp specifically designed to use with burettes. The GSC Burette Clamp Single with Jaws is a cast-aluminum clamp with nickel-plated steel thumb-screw.



- Cast aluminum clamp
- Nickel-plated steel thumb screw
- Jaw range of 3/8 in. to 1-3/8 in.

Cat. No.	Jaw Type	Price
S13743	Coated	5.75/Ea
S13742	Uncoated	5.50/Ea



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## Polypropylene Burette Clamps

Noncorrosive clamp provides a steady grip without obscuring graduations.

- Burettes are easily inserted
- Concealed steel spring and rubber pads prevent slipping
- Center clamp tightens to a standard support rod
- Autoclavable



**INCLUDES:**

Adapter to fit to narrower 0.37 in. rod, 0.49 and 0.37 in. bushing 9.5mm bushings

Cat. No.	Product Type	Price
S49141	Single Burette Clamp	19.00/Ea
S49142	Double Burette Clamp	28.00/Ea

## GSC Go Science Crazy Burette Double Clamp with Coated Jaws

Securely holds two burettes simultaneously.

- Arms of the clamp will "rotate 360 degrees and can be locked in place
- Cast iron construction
- Rubber coated jaws to prevent slipping
- Accept a tube range of 0.375 to 1.375 in.in. diameter



Cat. No.	Description	Price
S24618	Burette Double Clamp with Coated Jaws	8.75/Ea

## United Scientific™ 2-Prong Burette Clamp with Extension Rod and various grips

Our deluxe line of two prong burette clamps with extension rod and a selection of grip materials



Made of pressure die casted zinc alloy and are chrome plated. Adjustable to hold up to 60mm OD burettes, these clamps feature a spring-type adjustment key. Extension rod is 8.25 in. long, 5/16 in. OD, with an overall length of 12.75 in..

Cat. No.	Description	Price
S13117	Chrome Plated Zinc Alloy with Silicone Coated Grips	14.00/Ea

## United Scientific™ 3-Prong Extension Clamp with Boss Head and Various Grips

Our deluxe line of 3-prong extension clamps with boss heads

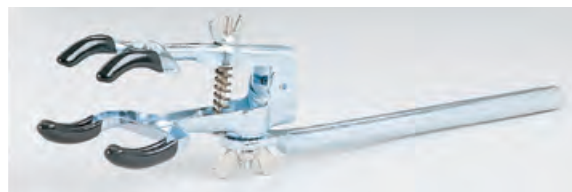


Constructed of pressure die-cast zinc alloy and are chrome-plated. Clamps open to about 3 in., have a recommended maximum grip size of about 2.25 in., and feature double keyed spring-type adjustment screws. Boss head clamp can swing freely, is lockable at any angle up to 360°, and can be used with rods up to 19mm.

Cat. No.	Description	Price
S13118	Chrome Plated Zinc Alloy with PVC Coated Grips	17.50/Ea
S13119	Chrome Plated Zinc Alloy with Silicone Coated Grips	17.00/Ea

## Extension Clamps

Allow for variable distance between the object and support rod.



- Plastic-covered jaws hold beakers and flasks firmly at any angle at a variable distance from their support
- One jaw is fixed; the other opens against a stainless-steel compression spring
- Open gradually to maximum size without binding
- Clamps will not rust

Cat. No.	Price
S49098	12.50/Ea
S49099	12.00/Ea



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## Eisco Premium Three-Finger Clamps



- Clamp constructed of powder coated steel
- Maximum clamp opening is 8.5cm
- 14cm connecting rod
- Completely metal constructions, thread fitted actuating joints
- 10mm diameter connecting rod

Cat. No.	Description	Price
S13901	Premium Three Finger Clamp with 10cm Rod	18.00/Ea
S13902	Premium Three Finger Clamp with Boss Head	16.50/Ea
S13913	Premium Large Three Finger Clamp	15.00/Ea
S13917	Premium Three Finger Clamp with 14cm Rod	16.00/Ea
S13918	Premium Three Finger Clamp with Boss Head	16.50/Ea
S13911	Premium Three Finger Clamp with Dual Screw Adjustments	17.25/Ea
S13912	Premium Three Finger Clamp with Dual Screw Adjustments and Boss Head Attachment	18.75/Ea

## Eisco G Clamp

Drop forged G Clamp (C clamp) 10.5cm

- Drop forged
- Length: 100mm
- 10cm opening

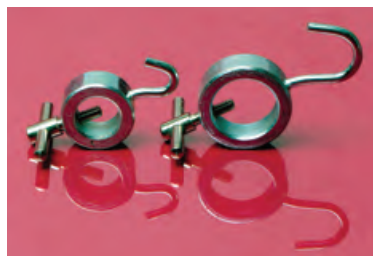


Cat. No.	Description	Price
S23649	G Clamp	12.25/Ea

## United Scientific™ Hook Collar Clamps

For suspending pulleys, balances, etc. from support rods or cross members.

- Plated steel collar clamps
- Thumbscrews and hooks for suspending pulleys, balances, etc. from support rods or crossbars.
- For 1/2 in. to 3/4 in. diameter rods

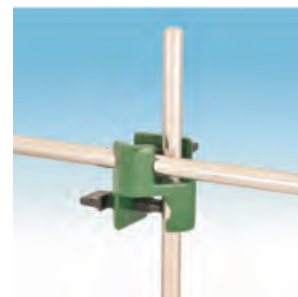


Cat. No.	Description	Price
S90317A	0.5 in.	4.85/Ea
S90317B	0.75 in.	6.55/Ea

## Eisco Multipurpose Clamp Holder

Accommodates square and circular section rods and tubing up to 16mm across.

- Square section aluminium alloy with plastic clamping screw
- Two rectangular slots hold rods and tubing
- Also allows rods to be attached to table edges and boards up to 16mm thick



Cat. No.	Description	Price
S02625	Multipurpose Clamp Holder	8.80/Ea

## United Scientific™ Clamp Holder

For rods up to 19mm in diameter.



- Made of cast aluminum body with steel thumb screws

Cat. No.	Description	Price
S13071	Clamp Holder	4.40/Ea

## Eisco Jumbo Swivel Clamp Holder

This brilliant clamp design allows tilting of clamps at any angle in parallel planes. Can hold rods up to 21 mm in diameter



Cat. No.	Description	Price
S24285	Jumbo Swivel Clamp Holder	27.00/Ea

## Pendulum Clamp

Usual for experiments.

- Without bobs or stand
- Can hold three pendulums 2 in. (5cm) apart with points for suspension of cords on the same horizontal clamp
- Works with horizontal or vertical support rods up to 0.6 in. (1.5cm) in diameter



Cat. No.	Description	Price
S41470	Pendulum Clamp	2.05/Ea



## Eisco Premium Two-Finger Clamps

Choose durable lab equipment that will last for years.



- Made of steel and powder-coated alloys
- Rubber-coated tongues
- Assorted styles

Cat. No.	Description	Price
S13909	Premium Two-Prong Clamp	14.75/Ea
S13907	Premium Two-Prong Clamp with Dual Screw Adjustments	19.25/Ea
S13910	Premium Two-Prong Clamp with Boss Head Attachment	16.50/Ea
S13916	Premium Two-Prong Cork Lined with Boss Head	16.50/Ea
S13908	Premium Two Prong Clamp with Dual Screw Adjustments and Swivel Boss Head	18.75/Ea

## Eisco 3-Prong Clamp with PVC Coated Diecast Jaw

High quality, durable 3 prong clamp with pvc coated die cast jaw that holds up to a 90mm or 3.5 in. capacity. Clamp tightens securely using a convenient thumbscrew. Overall clamp length is 10.5 in. and the diameter of the rod is 8mm or about .3 in.



Cat. No.	Description	Price
S24277	3 Prong Clamp with PVC Coated Diecast Jaw	16.00/Ea

## Eisco Premium 4-Prong Clamp

Choose durable lab equipment that will last for years. The Eisco Premium Four Prong Clamp is an industrial universal lab clamp.



- Clamp constructed of powder coated steel
- Lined clamp prongs are attached to aluminum rod
- Maximum clamp opening is 10.5 cm
- 14cm connecting rod
- Completely metal constructions, thread fitted actuating joints
- 10mm diameter connecting rod

### With Boss Head

- Swivel between clamp and boss head
- Boss accommodates up to 19mm rod

Cat. No.	Description	Price
S13905	Premium 4-Prong Clamp with Vinyl Coat	17.00/Ea
S13904	Premium 4-Prong Clamp with Boss Head	16.50/Ea

## Eisco Pulley with Universal Clamp

Aluminum pulley with universal frame.

- Can be clamped in any position to a wall, bench, drawing board, corner or edge of table
- Also can be fitted to a retort stand rod of 0.5 in. diameter (1.25cm)
- Two clamping screws have Bakelite™ knobs for easy grip
- 5cm diameter



Cat. No.	Description	Price
S99357	Aluminum; 5cm Dia.; with Universal Clamp	18.50/Ea

## Eisco Large Pulley with Universal Clamp

Use on bench edge, flat surface or support rod.

- 2.8 in. dia. (70mm) light alloy clamp
- Clamp is on brass and silver-steel bearing in alloy bracket
- Two clamping screws for bench up to 1.5 in. thick (38mm)
- Screws clamp onto flat surface or onto 0.5 in. dia. (13mm) support rod



### INCLUDES:

Pulley, clamp and bearing

Cat. No.	Description	Price
S96189	Pulley Plus Universal Clamp	14.25/Ea

## Eisco Pulley on Clamp

With bracket for bench mounting.

- Clamp made from high-quality metal
- Painted in red
- Pulley made from high-quality plastic
- Gray hand knob for tightening clamp



Cat. No.	Description	Price
S24882	Pulley on Clamp	8.35/Ea

## Eisco Clamp Retort Combined

Diecast alloy clamp retort, PVC coated jaws with boss head which accommodates rods up to 15mm in diameter.

- Diecast alloy
- Rubber-lined jaws with boss head
- Accommodates rods up to 15mm in diameter



Cat. No.	Description	Price
S02629	Clamp Retort	13.25/Ea

## Eisco 4-Prong Cork Lined Clamp Retort with Boss Head

Four prong, die casted alloy clamp retort with cork lined jaws with boss head.

Accommodates rods up to 15mm in diameter. Jaw opening up to 90mm.



Cat. No.	Description	Price
S24281	4 Prong Cork Lined Clamp Retort with Boss Head	11.75/Ea

## Eisco 4-Prong Retort Clamp

- Chrome plated, cork lined 4 prong retort clamp is ideal for clamping glassware of various sizes onto retort rods
- Clamp has a 5.65 in. long rod which is 0.314 in. (8 mm) diameter
- Adjustable jaw capacity is 0 in. to 4 in.
- S24275 cork lined retort clamp is powder coated and is perfect for holding lab equipment in place during delicate experiments.



Cat. No.	Description	Price
S24276	4 Prong Chrome Plated Retort Clamp	10.50/Ea
S24275	4-Prong Powder-Coated Retort Clamp	10.00/Ea

## Acetal Plastic Screw Clamp

Bel-Art™ SP Scienceware™ Acetal Plastic Screw Clamp offers on/off and fine control so accurate that it replaces stopcocks in many applications.

- Can be installed without disconnecting tubing or interrupting operation
- Accepts flexible tubing up to 14mm (1/2 in.) O.D.
- Molded of autoclavable acetal plastic
- Resistant to acids, alkalis and organic solvents



Cat. No.	Description	Price
S14319	Plastic Screw Clamp	33.00/Pk

## Eisco Table Clamp

For securing and holding a rod up to 12.5mm dia. vertically in a machined V-groove.

Clamps to tabletop up to 65mm thick.

**ORDERING INFORMATION:**  
Rod not included.



Cat. No.	Description	Price
S02609	Table Clamp	20.75/Ea

## Table Clamp

- Cast-iron with machined V-grooves in both vertical and horizontal directions to hold 2.5cm steel rods.
- Easily fits onto any table or bench with an edge thickness of up to 4.5cm.
- Nickel-plated T-type screws and grey enamel finish protects clamp from accidental chemical splashes and spills.
- Overall length is 20cm.



Cat. No.	Description	Price
S47766	Table Clamp	87.00/Ea

## Eisco Boss Head Thermometer Holder

Great way to suspend a thermometer.

- Die cast with metal alloy finish
- Hook on one end for suspending thermometer



Cat. No.	Description	Price
S95951	Boss Head Thermometer Holder	7.55/Ea

## Eisco Thermometer Clamp (with Boss Head)

For attaching to support rods up to 16 mm in diameter.

- Adjustable 360°; jaw rotation
- Will accommodate thermometers 6 to 12 mm in diameter
- Clamp is die casted with thumbscrews and jaws are made of phosphor-bronze
- Overall Length 140mm



Cat. No.	Description	Price
S14088	Thermometer Clamp	4.50/Ea

## Acetal Plastic Spring-Style Tubing Clamp

Self-closing spring operated tubing clamp is suitable for all flexible tubing.



- Positive-action clamp opens by squeezing handles together
- Naturally clamps shut to stop flow
- Chemical- and stain-resistant
- Made of Acetal plastic and stainless steel
- For tubing up to 8mm (5/16 in.) O.D.
- White

Cat. No.	Description	Price
S14320	Plastic Spring-Style Tubing Clamp	41.75/Pk

## Eisco Universal Clamp

Two prongs, diecast with other parts of plated brass.

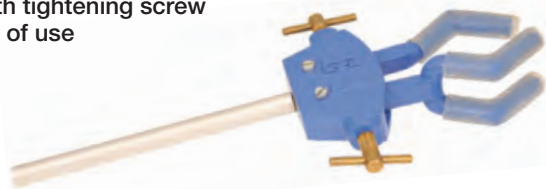


- Nickel and brass
- Accept articles from 15 to 60mm dia. actuated by nickel-plated brass pummels and twin screw
- Jaws are cork-lined
- Fitted with 15cm long mild steel rod

Cat. No.	Price
S02628	11.50/Ea
S02627	6.40/Ea

## Eisco 3-Prong PVC Coated Universal Clamp

Eisco labs universal 3 prong clamp. PVC coated, chemical resistant jaws. 11 in. length. Rod diameter approximately .3 in. with tightening screw for ease of use



Cat. No.	Description	Price
S24279	3 Prong PVC Coated Universal Clamp	8.75/Ea

## Eisco Universal Clamp with Holder

This universal clamp is manufactured with stamped steel. One side of the jaw is flat while the other side is a "v" shape. Designed for cylindrical shaped objects.



Cat. No.	Description	Price
S24282	Universal Clamp with Holder	7.10/Ea

## Diversified Woodcrafts™ Upright Set

Suitable for many lab experiments.

- Constructed of solid machined aluminum

### ORDERING INFORMATION:

FASTRAK item — ships within five days.

### INCLUDES:

- Two 0.75 dia. × 36 in. (1.88 × 90cm) uprights
- 0.5 dia. × 40 in. (1.25 × 100cm) crossbar
- Two clamps



Cat. No.	Description	Price
S94777	Upright Set	195.00/Ea

## United Scientific™ Lattice Lab System

Organize lab apparatus for a clean and efficient environment. The United Scientific Lattice Lab System is a lightweight flexible set of support rods and clamps that allows a wide range of lab apparatus to be assembled and securely supported.

- Lightweight flexible set of support rods and clamps that allows a wide range of lab apparatus to be assembled and securely supported
- Assembly is easy and requires only a screwdriver
- Support rods are made of hard aluminum
- Foot plates and hook connectors are made of cast alloy



Cat. No.	Description	Price
S23972	Lattice Lab System	130.00/Ea

## Eisco Lattice Clamp

For lattice building and rod coupling.

- Uses 12.5mm dia. rods
- Fitted with screws for Allen wrench



Cat. No.	Description	Price
S02608	Lattice Clamp	20.00/Pk

## Eisco Metalware Set

One each base, rod, boss head, clamp and retort ring.

### The set includes:

- Base retort stand 20 × 12.5cm (Fisher Cat S02611)
- Steel rods, 60cm (Fisher Cat S02615)
- Boss head (Fisher Cat S24263)
- 4-prong powder coated clamp retort (Fisher Cat S24275)
- Retort ring, 75mm O.D.



Cat. No.	Description	Price
S02631	Metalware Set, 5 pc.	32.25/Ea

## Eisco Stand and Rod Kit

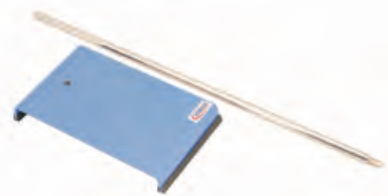
Basic laboratory assembly in an economical kit

### Base

- Retort base
- Stamped steel, powder coated
- Tapped hole receives 10 × 1.5mm threaded rod
- Dimensions: 20 × 13cm (8 × 5 in.)

### Rod

- Made of high-quality steel
- Length: 60cm (23.6 in.)
- Diameter: 11.9mm (approx 0.5 in.)
- Thread: 10 × 1.5mm



Cat. No.	Description	Price
S02630	Stand and Rod Assembly	16.25/Ea

## Eisco 4 Piece Metalware Set

Choose durable lab equipment that will last for years. The EISCO 4 Piece Metalware Set is a durable and economical metalware set that is a great start to any laboratory.

- Simple metal ware set for laboratory use
- Kit consists of: (1) Base 20 × 12.5cm, (1) Steel Rod 60cm, (1) Retort Ring 7.5cm Outer Diameter, (1) 3 Coated Prong Clamp with boss head
- Powder coated, chemical resistant base
- Plated steel rod for chemical resistance and years of use
- 3 Prong clamp is able to swivel, coated tips will protect glass, and wide mouth will accommodate most common glassware up to 3.5 inches wide



Cat. No.	Description	Price
S23711	4 Piece Metalware Set	40.00/Ea



## United Scientific™ Triangular Supports with Rods

Heavy cast-iron triangular bases.

- Black enamel finish
- Zinc-plated steel rods



## Support Stand

Stand has no exposed metal parts — all surfaces are polypropylene.

- Rod screws into base with a deep thread and sturdy tightening knob
- Base has smooth surface for easy cleaning
- Rod can be at either center or end of base
- Base dimensions: 8 × 12 × 2 in. (20 × 30 × 5cm)
- Base weight: 5.5 lb. (2.5kg)
- Rod dimensions: 0.5 × 30 in. (1.25 × 76cm)



Cat. No.	Diameter (Metric) Rod	Length (Metric) Rod	Price
S99423	0.8cm	45.7cm	13.00/Ea

Cat. No.	Description	Price
S97618	Support Stand	135.00/Ea

## GSC Go Science Crazy Cast Iron Support Ring Stand

Great for holding all sorts of lab equipment in a small space. The Cast Iron Support Ring Stand is made from cast-iron, with an enamel finish that is acid resistant. Includes a zinc plated steel rod that screws into the base support.

- Stand made from cast iron
- Acid resistant
- Plated steel support rod
- Rod threaded to fit base

### INCLUDES:

Zinc plated steel rod that screws into the base support



## GSC Go Science Crazy Support Stand with Rings

Great for holding all sorts of lab equipment in a small space. The Support Stand with Rings is made from cast iron, with an enamel finish that is acid resistant. Includes a zinc plated steel rod that screws into the base support. Supplied with support rings which are also cast-metal with a zinc finish.

- Stand made from cast iron
- Acid resistant
- Plated steel support rod
- Rod threaded to fit base
- Includes support rings

### INCLUDES:

Includes cast metal support rings with zinc finish



Cat. No.	Description	Price
S13746	5 x 8 in.	13.75/Ea
S13745	4 x 6 in.	12.75/Ea
S13747	6 x 9 in.	20.75/Ea
S13748	6.5 x 11 in.	27.25/Ea

Cat. No.	Description	Price
S13749	Base 4 x 6 in., Rod 18 x 5/16 in., 2 Rings diameter 3, 4 in.	29.25/Ea
S13750	Base 5 x 8 in., Rod 20 x 3/8 in., 3 Rings diameter 3, 4 and 5 in.	33.00/Ea
S13752	Base 6 x 11 in., Rod 36 x 1/2 in., 5 Rings diameter 2, 3, 4, 5 and 6 in.	60.00/Ea

## Compact Support Stand

Noncorrosive, molded support stand provides a space-saving alternative to stands with cast-iron bases.

- Footprint of 8.25 × 6.3 in. (21 × 16cm) conserves bench space; base thickness, 1.7 in. (4.3cm)
- Weighs 4.3 lb. (1.95kg) for stability
- Two rod positions for mounting at center or one end of the base
- Stainless-steel mounting rod (dia. × L): 0.375 × 19 in. (9.4mm × 50cm)

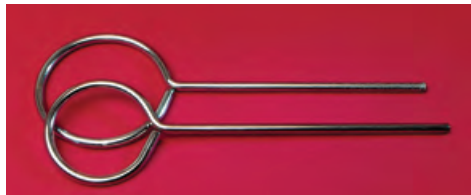
- Hex nut secures the rod and prevents it from turning
- Polypropylene base is autoclavable with smooth surface for easy cleaning



Cat. No.	Description	Price
S04472	Compact Support Stand; Polypropylene	78.00/Ea

## United Scientific™ Extension Support Rings

Zinc-plated steel extension rings.



- Rod diameter: 0.31 in. (0.8cm)
- Overall length: 12 in. (30.5cm)

Cat. No.	Diameter (English) Outer	Price
S99428	3 in.	5.35/Ea
S99427	2 in.	5.25/Ea

## GSC Go Science Crazy Support Ring Clamp

Great for holding all sorts of lab equipment in a small space. Works best with Support Stands and Rods. The Support Ring Clamp is a cast-iron clamp with nickel plated steel set screws. Can be clamped to a support stand rod for holding lab equipment.

- Clamp made from cast iron
- Nickel-plated steel screws
- Great for support stands/rods



Cat. No.	Diameter (English)	Price
S13756	5 in.	5.35/Ea
S13757	6 in.	7.65/Ea

## Ohaus™ Specific Gravity Rod and Clamp Assembly

For use with Triple Beam Mechanical balances.

The Specific Gravity Rod and Clamp is used to elevate Ohaus Triple Beam Balances when working with a specimen.



Cat. No.	Description	Price
S40022B	Balance Support Rod and Clamp	67.00/Ea

## fisherbrand Lab Jacks

Precise height adjustment with the turn of a knob.

- For supporting hotplates, baths, glassware and other items that require stable and precise height regulation
- Large diameter knobs provide a smooth and easy height adjustment
- Platforms are made of nonsparking anodized aluminum
- Standard, large and giant lab jacks have threaded holes to accommodate an optional support rod (S23514) and other apparatus



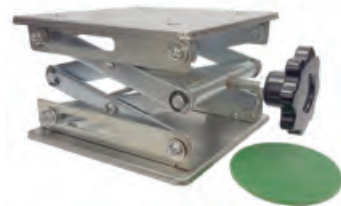
Cat. No.	Capacity (English)	Size	Price
S63079	8.8 lb.	Micro, 3 x 3 in. Plate	272.00/Ea
S63080	31 lb.	Mini, 4 x 4 in. Plate	355.83/Ea
S63081	60 lb.	Standard, 6 x 6 in. Plate	273.39/Ea
S63082	79 lb.	Large, 8 x 8 in. Plate	324.00/Ea
S63083	100 lb.	Giant, 12 x 12 in. Plate	688.09/Ea

## GSC Go Science Crazy Aluminum Lab Jack



Aluminum Lab Jack provide a helpful platform for use in the lab. Can be raised and lowered as needed via the knob on the side to a full height of approximately 275mm

- Autoclavable



Cat. No.	Size	Price
S39018	150mm	29.25/Ea
S39019	200mm	38.00/Ea

## Cleaning Supplies

### Powdered Labware Detergent

For use in manual, soak, or ultrasonic cleaning

Ideal for cleaning labware, scientific apparatus, and process equipment.

- Concentrated powdered detergent
- Completely soluble
- Free-rinsing
- Disposable straight to drain

#### ORDERING INFORMATION:

- Available in a user-friendly bottle which permits easy dispensing and eliminates caking
- Size: 4 lb. (1.8kg)



Cat. No.	Description	Price
S70112A	Concentrated Detergent Powder	40.00/Ea

## Powdered Enzymatic Detergent

Formulated for removal of protein and fat contamination  
Ideal for use in manual or soak cleaning of labware and equipment.

- Prevents corrosion
- Free-rinsing
- Disposable straight to drain

### ORDERING INFORMATION:

Size: 4 lb. (1.8kg)



Cat. No.	Description	Price
S70118A	Powdered Enzymatic Detergent	53.80/Ea

## Erada-Stain™

Mild yet effective cream cleaner for use on biological and chemical stains.

Biodegradable and phosphate free.

### Removes:

- Most histological dyes and medical stains
- General laboratory chemicals
- Wright stain Tinctures

### Erada-Stain used on:

- Hands
- Plastic
- Glassware
- Laboratory equipment and surfaces



### ORDERING INFORMATION:

Available in a 6 oz. (177mL) tube.

Cat. No.	Description	Price
S41316	Erada-Stain	32.50/Ea

## Absorbent Lab Towels

100% cotton towels.



Lint-free, individual towels are perfect for cleanup, and every student can have their own.

Cat. No.	Description	Price
S47610	Absorbent Lab Towels 10/pk	25.75/Pk

## Kimwipes™ Delicate Task Wipers

Clean and polish delicate surfaces without scratching or leaving residue. Single-ply Kimwipes™ EX-L wipers are made of a finely textured tissue. Come in a convenient Pop-U™ box with antistatic Lintguard™ polyshield.

- Low-linting wipers absorb 18% more water and are 24% faster than the leading private label task wiper
- Ideal for surfaces, parts, instruments and lens cleaning in laboratories and research environments
- Will not scratch delicate surfaces when used wet
- Dispensed individually to reduce waste while minimizing lint, static buildup, and contamination
- White
- Disposable



Cat. No.	Length (Metric)	Width (Metric)	Price
S47299	21.33 cm	11.17 cm	5.20/Pk
S47299A	42.16 cm	37.33 cm	16.25/Pk

## fisherbrand Cheesecloth Wipes

Reagent-grade quality.

- 100% brilliant white, pure cotton construction will not scratch sensitive surfaces. Have a high degree of cleanliness, softness, absorbency and strength
- Can be used to safely clean microscope and camera optical parts, as well as delicate glassware, syringes, pipets, and pH electrodes
- Absorb six times their weight in liquids and are useful for mopping up solvents and aqueous solutions
- Inert to even harsh solvents; good filtering material
- Grade 10 (mesh size)
- Size: 18 x 36 in.; 200/Pk.



Cat. No.	Description	Price
S04824	Cheesecloth Wipes	122.00/Pk



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MAKING SCIENCE MATTER

Visit us online at [fisheredu.com](http://fisheredu.com) to learn more about our programs, services and resources.

## fisherbrand Glass Disposal Boxes

Separate broken and contaminated glassware from other waste.

- When boxes are full of glass, simply remove the lid and flip up the rear flap to seal
- Polybag liner for wet glassware can be sealed for safer disposal
- Prevent injuries from broken glass
- Printed for maximum visibility
- Floor Model dimensions: 12L x 12W x 27 in.H (30.5 x 30.5 x 68.6cm)
- Benchtop Model dimensions: 12L x 12W x 10 in.H (30.5 x 30.5 x 25.4cm)



Cat. No.	Dimensions (L x W x H)	Model	Price
S41263	12 x 12 x 27 in. (30.5 x 30.5 x 68.6cm)	Floor	48.75/Cs
S41264	8 x 12 x 10 in. (20.3 x 30.5 x 25.4cm)	Benchtop	42.25/Cs

## Condensers and Distillation

## United Scientific™ Distillation Apparatus

Includes all the materials necessary to construct an inexpensive, versatile distillation apparatus.

- 500mL filtering flask
- 500mL round-bottom borosilicate flask with side tube
- 300mm Graham condenser
- 250mL Erlenmeyer flask
- Glass stopper
- Support stand (6 x 9 in. [15.2 x 22.9cm]) with 24 in. (61cm) rod
- Swivel buret clamp
- Extension clamp
- Clamp holder
- Activity guide



Cat. No.	Description	Price
S04534	Distillation Apparatus	152.00/Ea

## GSC Go Science Crazy Student Distillation Apparatus Kit

Demonstrates the properties of distillation in an inclusive kit. The Student Distillation Apparatus Kit is a must have kit for any student interested in learning the properties of distillation. It includes everything needed for a distillation demonstration.

- Simple and inexpensive pieces contained in this distilling apparatus are perfect for a student set
- Contains everything necessary to demonstrate the properties of distillation
- A comprehensive booklet is included which explains how the process of distillation is used in industry
- Boiling Flask, Erlenmeyer Flask and Kjeldahl Ball are made from heat resistant borosilicate glass
- Sizes: Liebig Condenser - 300mm L; Kjeldahl Ball - 50mm D; Boiling Flask - 500mL; Erlenmeyer Flask - 500mL



### INCLUDES:

Liebig condenser w rubber connections, 300mm length; Kjeldahl ball, 50mm diameter; Boiling flask, 500mL; Three legged support stand for boiling flask; Cast iron support stand; Wire gauze; 500mL Erlenmeyer flask; Instructions

Cat. No.	Description	Price
S13767	Distillation Apparatus Kit	73.00/Ea

## GSC Go Science Crazy Soxhlet Extraction Apparatus



Soxhlet Extraction Apparatus, or continuous cycle extraction apparatus, is typically used when a compound has a limited solubility or when the impurity is insoluble in a solvent

- Efficiently recycles a small amount of solvent to dissolve a large amount of material
- Extraction cycles automatically restart once the solvent solution reaches the siphon tube
- Made from heat resistant Borosilicate Glass

### INCLUDES:

- 1 Allihn condenser with a 50/42 ground bottom joint
- 1 Extraction tube with a 50/42 ground top joint and a 24/29 ground bottom joint
- 1 Flat bottom flask, 500ml with a 24/29 ground top joint



Cat. No.	Description	Price
S39020	Soxhlet Extraction Apparatus	87.00/Ea



## Solid Glass Beads

Increase the efficiency of separations.

- For use in distillations or as inert boiling stones
- Packaged in 1 lb. (0.45kg) packs



Cat. No.	Diameter (Metric)	Quantity	Price
S800241	4mm	5500/Pk.	48.25/Ea
S80024	3mm	12500/Pk.	50.25/Ea
S800243	6mm	1600/Pk.	19.25/Ea
S800242	5mm	2700/Pk.	54.25/Ea

## GSC Go Science Crazy Graham Coil Condensers

Sealed inner and outer tubes prevent leakage.

- Made of borosilicate glass
- Inner coil provides additional surface area for coiling
- Ground glass joints 24/40 allows precision connection to jointed glassware
- Choose sizes from 250mm to 600mm



Cat. No.	Length (Metric)	Jacket	Price
S04819	250mm		31.50/Ea
S04819A	300mm		39.50/Ea
S04819B	400mm		40.00/Ea

## Eisco Liebig Condenser

Made from borosilicate glass.

- Inner tube integral with body
- Narrow jacket for efficient cooling



Cat. No.	Height (English)	Length (English)	Length (English) Jacket	Width (English)	Price
S95944	2.36 in.	21.25 in.	11.81 in.	3.93 in.	14.75/Ea
S95945	6.29 in.	30.7 in.	19.68 in.	4.72 in.	10.00/Ea

## Eisco Graham Condenser

Change substance from gas to liquid. EISCO Graham Condenser is made from heat resistant borosilicate glass.

Made from borosilicate glass, coiled distillate type



Cat. No.	Description	Price
S23640	Graham Condenser	17.50/Ea

### Containers

## United Scientific™ Plastic Lab Trays

Ideal for carrying, storing and cleaning products.

- Can also be used to contain small spills and serve as a drip pan

### ORDERING INFORMATION:

Sold as pack of 10.



Cat. No.	Description	Price
S04545	Plastic Lab Tray	74.75/Pk

## Stackable Deep Trays

HDPE, stackable and low form trays.

- With handles for transporting and managing spills
- Useful for holding defrosting samples and plant cultures



Cat. No.	Capacity	Price
S01981	10L	36.25/Ea
S01981B	20L	69.25/Ea

## Utility Trays

Steam autoclavable, polypropylene molded trays.

- Ideal for sterilizing, drying or storage of labware
- Carrier tray has built-in handle for easy carrying of reagents or labware
- Standard Tray measures:  
15 × 14 × 5 in.  
(38.1 × 35.6 × 12.7cm)
- Carrier Tray measures:  
15 × 9.5 × 4.5 in.  
(38.1 × 24.1 × 11.4cm)
- Autoclavable



Cat. No.	Description	Price
S99413	Utility Tray	150.00/Pk
S99414	Carrier Tray	182.00/Pk

## Lab Drawer Compartment Tray

Invaluable for storing small items.



- 12 compartments
- White polystyrene plastic
- Each compartment is 3.9L × 3.9W × 2.9 in.D (98 × 98 × 73mm)
- Tray dimensions: 36 × 44.5cm (14 × 17.5 in.); fit standard lab bench drawers

Cat. No.	Description	Price
S478862	Gadget Organizer Tray	74.50/Ea

## Slim Jim™ Wastebasket with Venting Channels

Ideal for tight spots.

- Integrated venting channels take the strain out of liner removal
- Space-saving profile designed to fit in tight spaces
- Four can liner cinches to hold liner in place
- Molded-in handles and base grips make lifting and emptying easier
- L × W × H: 22 × 11 × 30 in.  
(56 × 28 × 76.2cm)
- Color: gray
- Capacity 23 gal.



### ORDERING INFORMATION:

Lid available separately.

Cat. No.	Description	Price
S94852	Wastebasket	105.16/Ea

## Food/Tote Box

Clear, break-resistant polycarbonate provides visibility, durability and stain resistance.

- Reinforced corners for added strength and durability
- Date control panels for easier inventory control
- Dishwasher and freezer safe
- Holds 12.5 gal. (47.3L)
- Snap-on lid fits securely, sold separately



### ORDERING INFORMATION:

Dimensions: 26L × 18W × 9 in. H (66 × 46 × 23cm).

### COMPLIANCE:

USDA Meat and Poultry Equipment Group listed. Box assists in complying with HACCP guidelines.

### CERTIFICATIONS:

NSF certified

Cat. No.	Description	Price
S94854	Food Storage Box Only, Lid Not Included	88.14/Ea
S94855	Snap-On Lid Only	35.47/Ea

## Crucibles

### Eisco Crucible Tongs

Crucible tongs for flasks, test tubes, dry ice and other laboratory items.

- For laboratory items up to 5cm dia.
- Nickel plated steel
- Length 20cm



Cat. No.	Description	Price
S23647	Crucible Tongs	2.15/Ea

### GSC Go Science Crazy Crucible Tongs

SS crucible tong with non-binding joint.



- For smooth operation
- Overall length 10 in.

Cat. No.	Description	Price
S50256A	Crucible Tong	9.90/Ea

## Eisco Porcelain Crucibles with Lid

Used to heat chemical compounds.



- For basic laboratory use to heat chemical compounds
- Constructed of glazed porcelain for strength, thermal performance, and enhanced chemical resistance
- Can withstand temperatures up to 1050°C (1900°F)

Cat. No.	Capacity (Metric)	Lid	Price
<b>Short Form</b>			
S14001	10mL	With Lid	20.50/Pk
S14002	30mL	With Lid	51.25/Pk
S14003	50mL	With Lid	103.00/Pk
<b>Tall Form</b>			
S13953	10mL	With Lid	20.50/Pk
S15475	15mL	With Lid	2.50/Ea
S15476	30mL	With Lid	2.60/Ea
S13954	50mL	With Lid	30.75/Pk

## United Scientific™ Stainless Steel Laboratory Crucibles

Withstands temperatures from -180°C to +800°C.



- Unibody construction from Type 304 stainless steel
- Includes cover
- Available in 15, 20, 25, 30, 50 and 100mL capacities

Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Height (Metric)	Price
S13088	30mL	39mm	38mm	12.50/Ea
S13090	100mL	57mm	55mm	19.00/Ea
S13085	15mL	32mm	34mm	10.50/Ea

### Desiccators

## fisherbrand Humidity Sponge™

Turns any container into a desiccator.



- Meets all scientific drying requirements
- Drying capacity depends on volume
- **Indicator Pack** contains a blue indicating gel that turns pink when the desiccant pack has reached its moisture capacity and must be replaced.
- **Reusable Pack** may be reused repeatedly and does not have a color indicator. Regeneration requires oven heating to 104°C (220°F). Single relative humidity card shows when regeneration is required.
- Weight: 10g

Cat. No.	Description	Price
S33516IND	Humidity Sponge Indicating Desiccant	57.00/Pk

## fisherbrand Crucibles and Covers

Easy to clean smooth, glazed surface.

- Use in any chemical environment
- Withstand temperatures up to 1150°C (2102°F)
- Consistent wall thickness and density
- Fired twice to give added strength and durability
- Highly resistant to chemical attack



Cat. No.	Capacity	Description	Price
S02221	15mL	High-Form	39.80/Pk
S02227	17mL	Wide-Form	42.85/Pk
S02222	30mL	High-Form	60.20/Pk
S02228	30mL	Wide-Form	50.00/Pk
S02223	40mL	High-Form	62.20/Pk
S02224	50mL	High-Form	70.40/Pk
S02225	100mL	High-Form	86.70/Pk
S02230	100mL	Wide-Form	72.40/Pk
S02234	----	Crucible Cover	70.40/Pk

## United Scientific™ Clear Base Vacuum Desiccators

Made of polypropylene (PP) and polycarbonate (PC).

- Can hold vacuum up to 740mmHg for 24 hours without any greasing
- Autoclavable at 120°C for 15 minutes
- Top dome, molded in rigid and transparent PC, gives crystal-clear view of sample
- Knurled knob on top provides easy handling of dome
- Transparent PC bottom provides increased viewing clarity
- Internal groove on flange holds silicon rubber O-ring
- PP stopcock has self-lubricating PTFE plug
- Three-way plug opens to create vacuum, closes to hold vacuum, and opens again to release vacuum



Cat. No.	Diameter (Metric) Outer Flange	Max. Clearance Above Plate	Height (Metric)	Diameter (Metric) Plate	Price
S13075	171mm	123mm	204mm	138mm	57.25/Ea
S13078	340mm	255mm	405mm	295mm	176.00/Ea

## Desi-Can™ Reusable Desiccant Canister

The reusable Desi-Can™ Canister is designed for service in desiccator cabinets.

For use in closets, containers, tool boxes, camera cases and other storage areas to prevent rust and moisture, these canisters contain silica gel to effectively absorb moisture through perforations in the aluminum case



- One canister of Reusable Desi-Can Canister maintains a safe level of humidity in 0.09 cubic meter (3 cubic ft.) of space
- Can be regenerated in 150°C (300°F) oven in about 3 hours for unlimited life
- Monitor window shows blue when recharged and pink when saturated
- 50.8L x 101.6W x 12.7mm H

Cat. No.	Description	Price
S14322	Desi-Can Reusable Desiccant Canister	26.00/Ea

## Mini Secador™ Mini Desiccator Cabinet

Sturdy construction assures easy and reliable storage of moisture sensitive products in space saving size

- Large side swinging door maximizes access to interior space
- Door has patented seal design, tab latches and security loops for padlock or tamper-evident seals; opens right to left
- Easy-to-view dial hygrometer located in door front
- Clear polystyrene for easy viewing of contents
- Kit available to mount to underside of shelf (S90137A)
- Dimensions: 25.4D x 33.8W x 21.6cm H (10 x 13.3 x 8.5 in.)
- Internal Volume: 0.3 cu. ft.
- 2 lockable loops with padlock or tamper-evident seals, door-mounted dial hygrometer
- The Mini Desiccator model is molded of polystyrene and does not block UV light. For ultimate UV protection, select a Secador™ 1.0 model or larger.



Cat. No.	Description	Price
S90137	Mini Desiccator Cabinet	170.00/Ea

## fisherbrand Stainless Steel Desiccator with Stainless Steel Shelves

One piece neoprene gasket provides excellent sealing of the chamber.

### Key Features

- Polished stainless steel with 0.187 in. thick (4.8mm) glass
- Airtight door with neoprene gasket, full-height hinges and double-action bar locks
- Fixed wire shelf brackets every 0.5 in. (13mm)



### Standard Size

- Glass on door and sides
- Tray holds 16 oz. (454g) of desiccant
- Weighs 23 lb. (10kg)

### Large Size

- Glass on door and back, stainless-steel sides
- Shelf dimensions: 13.375 x 18 in. (34 x 46cm)
- Weighs 57 lb. (26kg)

### INCLUDES:

Two stainless-steel shelves, desiccant tray

Cat. No.	Dimensions (L x W x H)	Size	Weight (English)	Price
S02123	12.25 x 12.5 x 12.25 in. (31.1 x 31.7 x 31cm)	Standard	23 lb.	1931.00/Ea
S02123A	22.5 x 16.5 x 23 in. (56.5 x 41.9 x 58cm)	Large	57 lb.	3736.00/Ea



Dishes

## PYREX™ Glass Evaporating Dishes

Rugged beaded rims prevent liquids from dripping.

Sturdy, standard, medium-depth dishes have flat bottoms and pour spouts.



- Temperature Range (English): 446°F
- Temperature Range (Metric): 230°C

Cat. No.	Capacity (English)	Diameter (English) Outer	Height (English)	Price
S33572	4.73 oz.	3.15 in.	1.77 in.	99.00/Cs
S33573	5.74 oz.	3.54 in.	1.96 in.	112.00/Cs

## Eisco Mortar and Pestle Set

Features a flat bottom, unglazed grinding surfaces, and spout for easy pouring. Eisco Mortar and Pestle Set is made from lab quality porcelain and designed for efficient and uniform grinding of various materials.

- Made from lab quality porcelain
- Outside of mortar and handle of pestle is glazed
- Inner bowl and pestle end are not glazed
- Spout for easing pouring
- Flat bottom for stability



Cat. No.	Capacity (Metric)	Diameter (Metric) Inner	Price
S23641	148 ml	105 mm	4.30/Ea
S23642	275 ml	140 mm	4.70/Ea
S23643	550 ml	153 mm	6.40/Ea

## fisherbrand Porcelain Evaporating Dishes

Useful for a variety of evaporating processes and ashing.

- Can be used in any chemical environment and in temperatures up to 1150°C (2102°F)
- Easy to clean, strong, durable and safe to use
- Deep form with lip
- Round bottom



- Highly resistant to chemicals
- Glazed inside and out except for rim

Cat. No.	Capacity (English)	Diameter (English) Outer	Height (English)	Price
S02239	1.18 oz.	2.36 in.	0.94 in.	76.50/Pk
S02240	2.36 oz.	2.95 in.	1.18 in.	73.45/Pk
S02241	4.05 oz.	3.7 in.	1.65 in.	105.05/Pk
S02242	5.07 oz.	3.93 in.	1.65 in.	119.35/Pk

## fisherbrand Porcelain Mortars

Glazed outside except bottom and unglazed inside.

- With lip
- Deep form
- Color: white
- Available in various capacities



Cat. No.	Capacity	Diameter (English) Inner	Diameter (English) Outer	Height (English)	Price
S02589	50mL	2.16 in.	2.75 in.	1.85 in.	32.65/Ea

## Eisco Porcelain Evaporating Basins with Spouts

Glazed porcelain evaporating basins include spouts for easy, mess free pouring. Designed to withstand high temperatures during drying applications including use in an oven or microwave to produce concentrated solutions or a precipitate by evaporating excess solvent.

- Made from high quality, glazed porcelain
- Spout for easy, mess free pour
- Designed to withstand high temperatures during drying and evaporation applications

- Flat bottom dishes are glazed inside and outside except for rim
- Round bottom dishes are fully glazed except outside base

Cat. No.	Capacity (Metric)	Bottom Shape	Diameter (Metric) Outer	Price
S13949	50mL	Flat	75mm	2.50/Ea
S23774	70mL	Round	75mm	1.80/Ea
S13950	100mL	Flat	100mm	4.90/Ea
S13952	120mL	Round	94mm	2.05/Ea
S13951	200mL	Flat	120mm	6.45/Ea
S23775	250mL	Round	115mm	4.50/Ea



**fisherbrand Porcelain Pestles**

For hand comfort in grinding.

- Unglazed on grinding surface
- Autoclavable
- Oversized



Cat. No.	For Use With (Equipment)	Length (Metric)	Price
S02593	50mL Mortar	11.4cm	37.75/Ea
S02594	65mL Mortar	13cm	38.75/Ea
S02596	275mL Mortar	18cm	46.90/Ea

**United Scientific™ Porcelain Casseroles**

Porcelain casserole dishes with porcelain handles.

- Casseroles are glazed inside and out
- With lip
- Glazed finish



Cat. No.	Capacity (Metric)	Diameter (Metric)	Price
S325501A	30mL	50mm	5.55/Ea
S325501C	175mL	90mm	9.55/Ea

**PYREX™ Watch Glasses**

Heavy walls and uniform fire-polished edges for strength.

Feature a high chemical durability which prevents contamination.

- Reusable
- Plain finish
- For Use With (Application: Used as beaker covers, permits escape of excess vapor and eliminates risk of contamination from dropped hooks or props)



Cat. No.	Diameter (Metric)	For Use With (Equipment)	Price
S34819	7.5cm	For 250mL Beaker	42.50/Pk
S34820	9cm	For 400mL Beaker	74.50/Pk
S34821	10cm	For 600mL Beaker	50.50/Pk

**United Scientific™ Watch Glasses**

For covering boiling solutions.

- Fire-polished edges and concave shape prevent sliding and return of condensation to beaker
- Can also be used on funnels, dishes and jars
- Thickness: 1.8 to 2mm

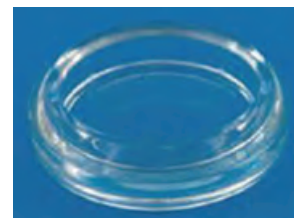


Cat. No.	Diameter (Metric)	Price
S34811A	5cm	28.75/Pk

**Syracuse Watch Glasses**

Easily stackable watch glasses.

- Made specially for low-temperature evaporation work
- Constructed of clear glass
- Bottom O.D.: 2.5 in. (65mm); I.D. 1.9 in. (50mm)
- Pack of 12



Cat. No.	Description	Price
S34826	Syracuse Watch Glass.	103.00/Pk

**Eisco Watch Glasses**

Range of different diameters.

- Polished
- Ground edges
- Used for evaporating or holding samples



Cat. No.	Diameter (Metric)	Thickness	Price
S99378	5cm	40mm	4.50/Pk
S99380	7.5cm	40mm	4.50/Pk

**United Scientific™ Disposable Petri Dishes**

These disposable dishes offer excellent clarity and strength.

- Polystyrene
- Sterile
- 15mmH

**ORDERING INFORMATION:**  
Sold as pack of 10



Cat. No.	Diameter (Metric)	Price
S08184	65 mm	2.95/Pk
S08185	90 mm	4.20/Pk
S08186	150 mm	13.25/Pk

## GSC Go Science Crazy Petri Dishes

For general laboratory use. Petri Dishes are made of polystyrene

- Clear
- Made of clear polystyrene
- Supplied with lid and bottom
- Available in different dimensions

**WARRANTY:**  
1 year unlimited



Cat. No.	Dimensions	Price
S24557	35 x 15mm	3.40/Pk
S24560	50 x 15mm	3.95/Pk
S24551	90 x 15mm	5.40/Pk

## Corning™ VISTA™ Petri Culture Dish

Flat, clear dishes feature beaded edges for greater mechanical strength.

Bead also provides a means to equally space the side walls of the bottom and cover, reducing the capillary action of the condensed moisture on the sides.

- Manufactured from soda lime silica glass
- Unaffected chemically or thermally in routine sterilizations
- Withstand repeated sterilization – wet or dry
- Bottoms have a triangular enamel reference point for serial dilutions
- Covered dish is not airtight
- Dia. x H: 100 x 15mm



Cat. No.	Description	Price
S95184B	Petri Culture Dish	106.00/Pk

## fisherbrand Petri Dish with Clear Lid

Feature a new and improved design and packaging

- Made from medical-grade, gamma sterilized polystyrene
- Ventilation ribs on the lid allow for air circulation
- Manufactured in a state-of-the-art cleanroom facility
- Packaging features a UPS™ shippable outer carton to prevent damage
- Product sleeve is made from a strong polymer to prevent bag holes
- Dishes packed in easy-open product sleeve with tear notch
- Product sleeves are vacuum sealed to prevent scuffing and other damage to dishes
- Complete manufacturing traceability with use of both the lot number on the case label and the lot ID number on the product sleeve
- 60 x 15mm



Cat. No.	Description	Price
S35839	Petri Dishes with Clear Lid	240.22/Cs

## DWK Life Sciences Kimble™ Petri Dishes with Covers

Color-coded markings for quick and easy identification.



- Kimax™ KG-33 glass remains clear after repeated wet or dry sterilization cycles
- Reinforced beaded edges resist mechanical breakage, help in centering bottom inside cover
- Covers have bright red ceramic enamel marking spot and COVER inscription
- Bottoms have white ceramic enamel BOTTOM inscription and vertical arrow to precisely locate serial dilution starting points

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Dish and covers designed to Federal Specification NNN-D-1478 requirements.

Cat. No.	Diameter (Metric)	Height (Metric)	Price
S00056	150 mm	20mm	143.00/Pk

## United Scientific™ Spot Plate

Economical, white plastic plates.

- Each plate measures 112 x 92mm
- Supplied in a pack of 12



Cat. No.	Description	Price
S99406	Spot Plate	11.50/Pk

## GSC Go Science Crazy 12-Place Spot Plates

Provides students with a porcelain surface for spot testing. The 12 Depression Spot Plates are compact for easy use.

- Contains 12 Depressions
- Porcelain:  
115L x 90W x 19H mm
- Polystyrene:  
110L x 80W x 20H mm



Cat. No.	Description	Price
S13823	Porcelain	2.70/Ea
S13824	Polystyrene	11.25/Pk

## Electrical Supplies

## EISCO Connecting Leads

Enables quick temporary electrical connections.

- Alligator clips on both ends
- Great for physics classrooms or labs
- Use for quick temporary electrical connections



Cat. No.	Description	Price
S13982	Black, 4mm	42.75/Pk
S13983	Red, 4mm	42.75/Pk
S13985	Red, 750mm	4.70/Ea
S13984	Black, 750mm	4.70/Ea
S13989	Red, 500mm	5.15/Ea
S13988	Black, 500mm	5.15/Ea

## Bare Copper Wire

For general lab use and low voltage hook-ups.

## Applications:

- As a fastener
- For electrodes
- To connect circuits
- As a source of copper in electrochemistry experiments



## ORDERING INFORMATION:

Comes in 1 lb. spool (454g).

Cat. No.	Diameter (English) Inside	Gauge	Length (English)	Price
S4821D	0.0253 in.	22 ga	501 ft.	28.25/Ea
S4821B	0.0403 in.	18 ga	199 ft.	26.00/Ea
S4821A	0.0508 in.	16 ga	126 ft.	26.50/Ea

## Heavy-Duty Batteries

For low-drain devices or devices that are used infrequently.

Use heavy-duty batteries for long-term applications like:

- Remote controls
- Clocks
- Smoke alarms
- Radios
- Flashlights



Cat. No.	Battery Type	Includes	Price
S43923H	D	6/Pk. (Shrink-Wrapped Packs)	5.35/Pk

## Filtration

## fisherbrand Filter Paper Circles

Limited wet strength.<sup>†</sup>



## Coarse Porosity

- Flowrate: Fast, 175mL/min.
- Surface: Smooth, open texture
- Particle Retention: >20µm
- Applications: Suitable for coarse and gelatinous precipitates

- Particle Retention: 5 to 10µm
- Applications: General lab uses

## Fine Porosity

- Flowrate: Slow, 5mL/min.
- Surface: Smooth, dense texture
- Particle Retention: 1 to 3µm
- Applications: Excellent retention; suitable for finest particles or precipitates

## Medium Porosity

- Flowrate: Medium, 60mL/min.
- Surface: Smooth

## Qualitative-Grade

Cat. No.	Diameter (Metric)	Grade	Porosity	Price
S47573B	7cm	P8	Coarse	9.97/Pk
S47573C	9cm	P8	Coarse	6.15/Pk
S47573E	11cm	P8	Coarse	7.15/Pk
S47573D	12.5cm	P8	Coarse	8.67/Pk
S47573F	15cm	P8	Coarse	10.25/Pk
S47574B	9cm	P5	Medium	5.87/Pk
S47571C	11cm	P5	Medium	7.15/Pk
S47574D	12.5cm	P5	Medium	12.75/Pk
S47574E	15cm	P5	Medium	9.45/Pk
S47575E	12.5cm	P2	Fine	14.78/Pk

## Quantitative-Grade

Cat. No.	Diameter (Metric)	Porosity	Price
S47576D	11cm	Coarse	23.25/Pk
S47576E	12.5cm	Coarse	21.50/Pk
S47577A	5.5cm	Medium	24.00/Pk
S47577E	12.5cm	Medium	21.00/Pk
S47577F	15cm	Medium	21.00/Pk
S47578C	9cm	Fine	14.03/Pk



## Eisco Filter Paper

Student quality filter paper.

Pack of 100



Cat. No.	Diameter (Metric)	Price
S60173A	12.5cm	21.75/Pk

## United Scientific™ Filtering Kit

An excellent, faster-working alternative to traditional gravity-based liquid filtration.

With hand vacuum pump and activity guide.

### Contents:

- 500mL filtering flask
- 90mm porcelain Büchner funnel
- Hand vacuum pump with gauge
- 90mm filter papers (Pk)
- Rubber stopper



• Vacuum hose

Cat. No.	Description	Price
S04535	Filtering Kit	87.00/Ea

## Cheesecloth

Good quality for good results.

- For filtering wax and crystal oil analyses
- Also used as heavy dust cloths
- Exceptionally absorbent
- Without starch



**ORDERING INFORMATION:**  
10 square yards per pack.

Cat. No.	Description	Price
S47252	Cheesecloth	9.94/Ea

## fisherbrand Cheesecloth Wipes

Reagent-grade quality.

- 100% brilliant white, pure cotton construction will not scratch sensitive surfaces. Have a high degree of cleanliness, softness, absorbency and strength
- Can be used to safely clean microscope and camera optical parts, as well as delicate glassware, syringes, pipets, and pH electrodes
- Absorb six times their weight in liquids and are useful for mopping up solvents and aqueous solutions
- Inert to even harsh solvents; good filtering material
- Grade 10 (mesh size)
- Size: 18 x 36 in.; 200/Pk.



Cat. No.	Description	Price
S04824	Cheesecloth Wipes	122.00/Pk

## United Scientific™ Rubber Filter Aid

Molded rubber disc.

- Supports a filter crucible or a funnel in the neck of a filter flask
- Bottom of disc seals tightly against lip of the flask
- Inside diameter: 1.3 in. (32mm)
- Outside diameter: 3 in. (76mm)



Cat. No.	Description	Price
S90341	Rubber Filter Aid	7.75/Ea

## fisherbrand Cheesecloth Mini-Wipes

Made of certified 100% reagent-grade cotton.

- Each 4 in. square pad (8-ply) unfolds to approximately 7x14 in.
- Pure cotton with grade 10 (mesh size)
- Bleached
- Meets all lab requirements for cleanliness, softness, absorbency, and strength
- Can be used on microscopes, optical surfaces, glassware, pH electrodes and will not scratch sensitive surfaces
- Absorbs 6 times their own weight of both solvents and aqueous solutions

- Individually dispensed wipes eliminate time-consuming cutting of bolts of cloth and dust, dirt, and waste associated with handling difficult-to-store rolls



Cat. No.	Description	Price
S04825	Cheesecloth Mini-Wipes	48.75/Pk

## United Scientific™ Neoprene Filter Adapter Set

Provides an alternative to special size holes in rubber stoppers.



- Set of 7 adapter cones designed to fit Buchner/fritted glass funnels, porcelain filters without headpieces, and for reverse flow cleaning of filter crucibles
- Used to support funnels, Gooch crucibles, filter tubes, and other apparatus in filtration assemblies
- Used individually or nested with adjacent sizes
- Functional even if not tightly fitted around funnel stem

Cat. No.	Description	Price
S13106	Filter Adapter, Set of 7	14.50/Pk

### Funnels

## Long-Stem Funnel

For use with tall flasks or containers.

- Made from heavy-duty polypropylene
- Smooth walls
- 60° cone angle and long stem
- External ribs prevent airlock
- Steam autoclavable at 121°C (250°F)
- Stem length: 3.06 in. (78mm)
- Top I.D.: 2.7 in. (70mm)



#### ORDERING INFORMATION:

Sold in packs of six.

Cat. No.	Description	Price
S345101	Long-Stem Funnel	29.25/Pk

## Utility Funnel

Lightweight funnels are inexpensive and great for general use.



- Made from polypropylene or high density polyethylene
- Good for pouring thick liquids
- Maximum funnel dia.: 6.38 in. (16.2cm) with very large throat opening

Cat. No.	Description	Price
S34564	Utility Funnel	24.75/Pk

## Büchner Funnels

Lightweight, but not top-heavy.

- Two-piece funnel for easier cleaning
- Perforated filter plate
- Polypropylene
- Steam autoclavable at 121°C (250°F)



Cat. No.	Quantity	Price
S34567D	Each	161.00/Cs
S34567A	6 Pack	130.00/Cs

## Eisco Glass Filter Funnel

- Borosilicate Glass
- 3 in. diameter
- 60° angle pitch
- Long stem, 2.75in.



Cat. No.	Description	Price
S27998	Glass Filter Funnel	2.40/Ea

## GSC Go Science Crazy Sintered Glass Funnels

Quality borosilicate glass funnel with porous filter plate.

- Removable porous filter plate for cleaning and reuse
- Allows fine filtration without use of filter paper



Cat. No.	Capacity (Metric)	Porosity	Price
S04821	35mL	2, Medium	10.50/Ea
S04821A	35mL	3, Fine	10.50/Ea
S04821B	80mL	2, Medium	10.25/Ea
S04821C	80mL	3, Fine	10.25/Ea
S04821D	125mL	2, Medium	20.75/Ea
S04821E	125mL	3, Fine	20.75/Ea

## Thermo Scientific™ Nalgene™ Powder Funnel

Won't chip, crack or break.

- Tough, autoclavable polypropylene funnels
- Transfer liquids or powders
- External ribs allow for easy pouring
- 115mL
- Height: 8.5cm



Cat. No.	Description	Price
S34680	Powder Funnel	106.60/Pk

## PYREX™ Fluted Funnel

Useful in clinical and hospital labs; can be used in flasks or tubes without racks.

- Strong, beaded rims and short stem
- Depressed inside flutings decrease filtering time
- Bowl angle: 60°
- Top Dia.: 75mm; Stem: 75mm L



Cat. No.	Description	Price
S04720	Fluted Funnel	257.00/Pk

## 58° Addition Funnels

Fire polished long stems for long service life.

- KIMAX™ KG-33 borosilicate glass
- Heavy uniform walls and strong, molded rims
- High resistance to chemical attack and mechanical and thermal shock

### COMPLIANCE:

Long-Stem Funnels: Designed from ASTM™ Specification E1095, Type I, Class B requirements.



Cat. No.	Capacity (Metric)	Diameter (Metric) Stem	Diameter (Metric) Top	Length (Metric) Stem	Price
S00172	90mL	0.8cm	7.5cm	7.5cm	84.00/Cs

## KIMAX™ 58° Angle Short Stem Funnels

58° angle provides faster, more effective filtering.

- Borosilicate glass
- Provides faster, more effective filtering



### CERTIFICATIONS

ASTM E1095, Type I, Class A

Cat. No.	Capacity (Metric)	Diameter (Metric) Stem	Diameter (Metric) Top	Length (Metric) Stem	Price
S34402	36mL	0.8cm	5.5cm	6.3cm	216.00/Pk
S34404	90mL	0.8cm	7.5cm	7.5cm	172.00/Pk
S34405	150mL	0.9cm	9cm	9.7cm	82.00/Pk

## fisherbrand Reusable Glass Short-Stem Funnels

High resistance to chemical attack, mechanical, and thermal shock

- Constructed with heavy uniform walls, molded rims, and fire-polished stems
- Formed to a 58° angle for faster, more effective filtering
- Cone is suspended by its uppermost edge, leaving most of the conical area for filtration
- 90mL



Cat. No.	Description	Price
S35829	Reusable Glass Short-Stem Funnels	195.00/PK

## GSC Go Science Crazy Glass Funnel

Designed specifically for buret filling.

- Top diameter: 1.5 in. (40mm)
- Stem length: 1.37 in. (35mm)
- Overall length: 2.5 in. (65mm)



Cat. No.	Description	Price
S32202	Buret Funnel	11.25/Ea

## GSC Go Science Crazy Separatory Funnel with PTFE Stopcock

Available in a variety of sizes.

- Sold individually
- Available in 250mL, 500mL and 1000mL sizes



Cat. No.	Capacity (Metric)	Price
S04820	250mL	22.25/Ea
S04820A	500mL	363.00/Cs
S04820B	1000mL	504.00/Cs

## United Scientific™ Separatory Funnels

Provide excellent clarity and strength.

- Pear-shaped polypropylene separating funnel
- Leakproof threaded screw cap
- Polypropylene stopcock, fitted with a self-lubricating PTFE plug, push fitted to the stem of the funnel
- Not graduated
- Length: 45mm



Cat. No.	Capacity (Metric)	Diameter (Metric) Top	Price
S90334B	250mL	75mm	28.75/Ea
S90334C	500mL	90mm	31.00/Ea

## Eisco Pear Shaped Separating Funnels

- Borosilicate glass
- Pear shaped
- With stopper and Rotaflow Stopcock



Cat. No.	Description	Price
S27999	250mL	10.75/Ea
S28000	1000mL	23.75/Ea

## Hydrometers

### Durac™ Salt Brine Plain Form Hydrometer

For measuring sodium chloride saturation of salt brines with range from 0 to 100%

- Lead-free ballast and glass
- Individually serialized
- Temperature standardization: 60°F (15°C)

#### ORDERING INFORMATION:

Should you require an individual Hydrometer Calibration Report, factory calibrated hydrometers or custom calibration services are available.

#### STORAGE:

Salt Brine hydrometers should be stored in a clean, dry, safe place, and should not be subjected to extreme temperatures.

#### CERTIFICATIONS:

Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy indicating accuracy traceable to NIST. Hand inspected by U.S. quality team.

Cat. No.	Description	Price
S04256	Brine Plain	49.00/Ea

### Durac™ Soil Analysis ASTM Hydrometers

For determining the specific gravity of soil.

- Conform to the accuracy requirements of ASTM hydrometers
- 280mm (11 in.) long
- Lead free ballast and glass
- Individually serialized
- Temperature standardization: 68°F/68°F

#### ORDERING INFORMATION:

Should you require an individual Hydrometer Calibration Report, factory calibrated hydrometers or custom calibration services are available.

#### INCLUDES:

Multilanguage (English, French, German, Italian, Portuguese and Spanish) statement of accuracy traceable to NIST

#### CERTIFICATIONS:

Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy indicating accuracy traceable to NIST. Hand Inspected by our U.S. quality team.

Cat. No.	Accuracy	ASTM Number	Increments	Specific Gravity Range	Price
S04258	±0.001	151H	0.001	0.995 to 1.038	37.75/Ea
S02656	±1g/L	152H	1	-5 to 60g/L	36.75/Ea





## Durac™ Specific Gravity/ Relative Density Plain Form Hydrometers: for Liquids Heavier Than Water

Available in a variety of models measuring specific gravity/relative density (g/cm<sup>3</sup>) of liquids heavier than water in various ranges from 1.000 to 3.000.

- Lead free ballast and glass
- Individually serialized
- Temperature standardization: 60°F (15°C)

### Applications:

Commonly used in industries such as food and beverage, chemical, pharmacology, transportation, refrigeration and more

### Certifications:

Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy indicating accuracy traceable to NIST. Hand inspected by U.S. quality team in exclusive triple accredited/registered ISO/IEC 17025:2005 and A2LA Accredited Calibration Laboratory (Cert 2448.01); internationally recognized and accepted by the signatory economies of the ILAC/MRA and located in ISO 14001:2004 Environmental Management System registered facility.

### Storage:

Plain form hydrometers should be stored in a clean, dry, safe place. They should not be subjected to extreme temperatures.

### ORDERING INFORMATION:

Should you require an individual Hydrometer Calibration Report, factory calibrated hydrometers or custom calibration services are available.

### CERTIFICATIONS:

Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy indicating accuracy traceable to NIST. Hand inspected by U.S. quality team.

Cat. No.	Specific Gravity Range	For Use With (Application)	Accuracy	Increments	Price
S04251	1.000 to 1.220	For Liquids Heavier Than Water	±0.002	0.002	36.75/Ea
S04252	1.200 to 1.420	For Liquids Heavier Than Water	±0.002	0.002	35.75/Ea



## United Scientific™ Hydrometer Cylinders

Made from heavy borosilicate glass.

- Beaded top with a pouring spout
- Round base for stability

Cat. No.	Capacity (Metric)	Price
S90319A	500mL	32.00/Each
S90319C	1200mL	61.25/Each



## Universal Hydrometer

Ideal for specific gravity experiments.



- Specific gravity range: 0.700-2.000, measured in 0.010 intervals
- 14.9 in. (38cm) long with a metal ballast

Cat. No.	Description	Price
S30449	Universal Hydrometer	7.75/Ea

## fisherbrand Precision Specific Gravity Hydrometers

This set includes a thermometer with 0° to 220°F range and eight precision hydrometers.

- The hydrometers cover a specific gravity range from 0.69 to 2.00
- Permanently marked with individual serial numbers and accurate to one graduation line
- Packaged in a lined case



### ORDERING INFORMATION:

Certification of calibration is also available.

### COMPLIANCE:

These hydrometers are calibrated according to ASTM™ E 126 specifications; meets or exceeds ASTM™ E 100 specifications.

### CERTIFICATIONS:

NIST™ traceable. A certificate is provided to indicate instrument traceability to standards provided by NIST™.

Cat. No.	Description	Price
S40791**	Fisherbrand Precision Specific Gravity Hydrometer	274.00/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## fisherbrand Durac™ Compact Sling Psychrometer

Measures relative humidity with weather bureau-type wet and dry bulb.

- Organic liquid filled thermometers with white back glass
- Mounted in a pocket sized self contained plastic case designed with a built in slide rule/convert wet and dry bulb readings/relative humidity
- Eliminates the need for calculating tables
- Temperature range: 20° to 120°F
- Divisions: 1°F
- Accuracy: 1°F
- Length: 8.3 in. (210mm)



Cat. No.	Description	Price
S02006*	Compact Sling Psychrometer	111.00/Ea

## fisherbrand Traceable™ Dew-Point/Wet-Bulb/Humidity/Thermometer

Shows current, minimum and maximum displays.

- Set high/low alarm for all four readings (dew-point, wet-bulb, humidity and temperature)
- Alarm may be set in 0.1° increments; sounds for one minute, and red LED flashes until readings return to nonalarm conditions
- Temperature range: -40° to +70°C and -40° to +158°F
- Temperature resolution: 0.1° (below 100°)
- Accuracy: ±1°C
- Relative humidity range: 1 to 99%
- Resolution: 0.1% RH
- Accuracy: ±4% between 20 to 80% RH
- Dimensions: 4.13 × 4.13 × 1 in. (10.5 × 10.5 × 2.5cm)
- LCD digits: 1 in.H (2.5cm)
- Weight: 4.25 oz. (0.12kg)

### INCLUDES:

Two AA alkaline batteries for one year of continuous monitoring, High-impact, chemical-resistant ABS plastic case

### COMPLIANCE:

Meets federal requirements for CLIA specification 493.1207 for monitoring temperature and humidity.

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S97613	Dew-Point/Wet-Bulb/Humidity/Thermometer	77.00/Ea

## Thermo Scientific™ Nalgene™ Hydrometer Cylinder

Rely on the superior chemical resistance of the Thermo Scientific™ Nalgene™ Hydrometer Cylinder.

- Broad base for stability
- Autoclavable; upper temperature limit 135°C (275°F)
- Suitable for use as a lactometer cylinder
- Dimensions: 2.03 dia. × 15.6 in. (50.8 × 390mm)



Cat. No.	Description	Price
S30630	Hydrometer Cylinder	24.80/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Labware

### Plasticware Kits

## Fisher Science Education™ Polypropylene Labware Set

20-piece kit.

- (1) 100mL beaker, (1) funnel, (3) plastic test tubes
- (1) 250mL beaker, (4) reagent bottles, (6) pipets
- (1) 10mL graduated cylinder, (1) dropping bottle, (1) plastic box with lid
- (1) 100mL graduated cylinder, (1) 250mL wash bottle



Cat. No.	Description	Price
S90310A	20-Piece Labware Set	28.75/Pk

## Fisher Science Education™ Economy Polypropylene Labware Starter Set

Set contains 16 pieces.

- Beakers: Two (2) each of 100, 250, 500 and 1000mL
- Cylinders: Two (2) each of 100, 250, 500 and 1000mL



Cat. No.	Description	Price
S02650	16 Pieces Starter Set	68.75/Ea

## Fisher Science Education™ Extended Science Classpack and Measure Set

40 pieces of labware.

- Six each polypropylene beakers (100, 250, 500, 1000mL)
- One each polypropylene cylinders (10, 25, 50, 100, 250, 500, 1000mL)
- Two each polypropylene cylinders (100, 250, 500, 1000mL)
- One each beakers with handles (250 and 500mL)



Cat. No.	Description	Price
S02651	40 Pieces Extended Science Classpack and Measure Set	129.00/Ea

### Beakers

## AquaPhoenix™ Beaker Set

Ideal for laboratory use.

- Glass
- One each of 50, 125, 250, 600 and 1000mL



Cat. No.	Description	Price
S04405	Beaker Set	38.25/Pk

## PYREX™ Beaker Set

Five popular sizes in one set.

- Convenient set provides the sizes you need without purchasing multiple packs
- Set contains one each of 50, 100, 250, 600 and 1000mL



Cat. No.	Description	Price
S63266	Beaker Set	41.75/Cs

## Eisco Low Form Beakers

These high quality, affordable beakers are perfect for any science classroom or home lab.

- Borosilicate Glass



Cat. No.	Capacity (Metric)	Price
S15428	10mL	6.20/Pk
S15430	50mL	10.00/Pk
S15431	100mL	13.00/Pk
S15432	150mL	14.75/Pk
S15433	250mL	17.50/Pk
S15434	400mL	18.00/Pk
S15435	600mL	18.75/Pk

## PYREX™ Beaker

- Capacity: 3000mL
- No handle



Cat. No.	Description	Price
S30442	3000mL Beaker without Handle	120.00/Pk

## PYREX™ VISTA™ Griffin Beakers

Provide balance between thermal shock resistance and mechanical strength.

- Borosilicate Glass
- Extra-large marking spot
- 250 through 1000mL beakers have a double-graduated metric scale to indicate approximate content (10mL size is not graduated)



**COMPLIANCE:**  
Designed to ASTM™ E-960.

Cat. No.	Capacity (Metric)	Price
S76100B	20mL	40.25/Pk
S76100C	30mL	40.25/Pk
S76100D	50mL	42.50/Pk
S76100E	100mL	44.75/Pk
S76100F	150mL	42.25/Pk
S76100G	250mL	40.75/Pk
S76100H	400mL	48.75/Pk
S76100J	600mL	30.75/Pk
S76100K	1000mL	57.25/Pk

## PYREX™ Heavy-Duty Griffin Beakers

Offer the best mechanical strength under harsh conditions, such as mechanized washing machines.

- Double graduated metric scale
- Extra large marking spot
- With spot
- Borosilicate Glass

**COMPLIANCE:**  
ASTM E960



Cat. No.	Capacity (Metric)	Price
S63326	250mL	104.00/Pk
S63327	400mL	135.00/Pk
S63328	600mL	79.00/Pk
S63329	1000mL	152.00/Pk
S63330	2000mL	207.00/Pk
S63334	4000mL	101.00/Ea

## Eisco Low Form Borosilicate Glass Beakers

These low form beakers are made by hand from high quality borosilicate 3.3 glass. They are extremely durable, have low temperature gradients, and superior chemical durability.

- Made from high quality borosilicate 3.3 glass
- White graduations for easy visibility (not available for 5mL and 10mL sizes)
- Low temperature gradient - can withstand high temperatures and thermal shocks
- Superior chemical durability
- Low form
- Autoclavable at 121°C
- In compliance with DIN 12231 and ISO 3819 standards



Cat. No.	Capacity (Metric)	Price
S15438	100mL	2.95/Ea
S15439	250mL	2.95/Ea
S15440	400mL	4.05/Ea
S15442	1000mL	8.90/Ea
S15443	2000mL	15.25/Ea

## Low-Form Griffin Beakers

Borosilicate glass, with spout.

- Thick, slightly flared, beaded top
- With spout designed to have excellent pouring characteristics
- Uniform Kimax™ KG-33 glass walls throughout
- Durable matte-finish marking area for use with an ordinary pencil
- Easy-to-read white graduated scale on 0.67 to 33.8 oz. (20 to 1000mL) sizes for measuring and/or mixing liquids where a high level of accuracy is not required



**COMPLIANCE:**

Glass meets Type 1, Class A, ASTM™ E-438 standards. Beaker designed to ASTM E-960, Type I specification requirements.

Cat. No.	Capacity (Metric)	Price
S00001	10mL	42.75/Pk
S00005	50mL	45.50/Pk
S00006	100mL	45.00/Pk
S00007	150mL	44.50/Pk
S00008	250mL	47.00/Pk
S00009	400mL	60.00/Pk
S00010	600mL	32.50/Pk
S00012	1000mL	60.50/Pk

## KIMAX™ Low-Form Griffin Beakers

Thick-walled beakers for a standard of durability in the classroom

- Beaded top, with spout designed to prevent dripping
- Durable borosilicate glass beakers
- Graduated scales
- Large, scratch- and chemical-resistant marking spot



**COMPLIANCE:**

USP, ASTM E438, ASTM E960

Cat. No.	Capacity (Metric)	Price
S307306	250mL	82.00/Pk
S307303	50mL	85.00/Pk
S307304	100mL	64.00/Pk
S307305	150mL	82.00/Pk
S307308	600mL	62.00/Pk
S3073010	1000mL	118.00/Pk



## Heavy-Duty Low-Form Beakers

With capacity scale.

- Thick uniform walls throughout
- Extra wall thickness built into evenly tooled top rim
- Spout designed for optimum performance
- Heavy Kimax KG-33 glass construction prolongs life expectancy with harder than normal usage (i.e., mechanical shock)
- Durable matte-finish marking area and a white graduated scale



Not recommended for use on hotplates where significant thermal gradients exist due to lack of agitation of contents or absence of a temperature control.

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standard. Beaker designed to ASTM E-960, Type II specification requirements.

Cat. No.	Capacity (Metric)	Price
S00016	150mL	93.00/Pk
S00017	250mL	106.00/Pk
S00019	600mL	80.00/Pk

## PYREX™ Berzelius Tall-Form Beakers

A popular style for mixing in the lab.

- Taller than traditional Griffin style
- Made with uniform wall thickness with extra-large enamel marking spot
- Borosilicate glass
- With spout
- White enamel scale



Cat. No.	Capacity (Metric)	Price
S63336	200mL	72.50/Pk
S63337	300mL	81.00/Pk
S63339	500mL	38.75/Pk

## Eisco Tall Form Borosilicate Glass Beakers

These tall form beakers are made by hand from high quality borosilicate 3.3 glass. They are extremely durable, have low temperature gradients, and superior chemical durability. All include a spout for easy pouring, easy to read graduations, and are autoclavable.

- Made from high quality borosilicate 3.3 glass
- White graduations for easy visibility
- Low temperature gradient - can withstand high temperatures and thermal shocks
- Superior chemical durability
- Tall form
- Autoclavable at 121°C
- In compliance with DIN 12231 and ISO 3819 standards



Cat. No.	Capacity (Metric)	Price
S23911	50mL	2.05/Ea
S23912	100mL	2.55/Ea
S23913	250mL	3.10/Ea
S23914	400mL	4.40/Ea
S27981	500mL	4.75/Ea

## PYREX™ Griffin Beakers

With spouts and strengthened rim with flare trimmed back that offer optimum balance between thermal shock resistance and mechanical strength.

- Borosilicate glass
- With pouring spout
- Extra-large marking spot
- Dual white scale 5
- 50mL sizes suitable for microanalysis
- 250mL through 4000mL capacity beakers have double graduated metric scale
- Reusable



### COMPLIANCE:

Designed to meet ASTM™ E-960 requirements

Cat. No.	Capacity (Metric)	Price
S14269	50mL	73.75/Pk
S14270	100mL	79.00/Pk
S14271	150mL	73.00/Pk
S14272	250mL	79.00/Pk
S14273	400mL	88.00/Pk
S14274	600mL	57.25/Pk

## PYREX™ Griffin Low Form Beaker with Double Graduated Metric Scale

Offers optimum balance between thermal shock resistance and mechanical strength. PYREX™ Griffin Low Form Beakers feature a double graduated metric scale to indicate approximate content and an extra large marking spot.

- Offers optimum balance between thermal shock resistance and mechanical strength
- Double graduated metric scale indicates approximate content
- Manufactured with uniform wall thickness
- With extra large marking spot
- With spout
- Reusable



**COMPLIANCE:**  
ASTM E960

Cat. No.	Capacity (Metric)	Price
S14276	1000mL	105.00/Pk
S14278	2000mL	138.00/Pk
S14279	3000mL	36.25/Ea
S14280	4000mL	112.00/Ea

## Corning™ Reusable Polypropylene Low-Form Griffin Beakers

Translucent polypropylene beakers printed with blue graduations.

- Temperature operating range (Max): 20°C/68°F

**COMPLIANCE:** ASTM E9

Cat. No.	Capacity (Metric)	Price
S02291	25mL	46.00/Cs
S02291D	250mL	38.75/Cs
S02291H	2000mL	147.00/Cs
S02291K	5000mL	149.00/Cs



## Polypropylene Disposable Beakers

Disposable or steam-autoclavable for reuse.

- Resistant to most acids, solvents and other common reagents
- Special "dripless" lip
- Rib construction permits stacking without binding
- Graduated markings in mL and oz.
- With spout



Cat. No.	Capacity (Metric)	Price
S63359	30mL	28.90/Pk
S63360	50mL	33.60/Pk
S63361	150mL	62.25/Pk
S63362	400mL	53.60/Pk

## Fisher Science Education™ Polypropylene Beaker Set

Classroom set of polypropylene beakers.

Consists of one each:

- 50mL
- 100mL
- 250mL
- 500mL
- 1000mL



Cat. No.	Description	Price
S400563B	Classroom Beaker Set	19.75/Pk

## Plastic Beaker with Handle

Our handles make your handling of solutions easier and safer.

- Durable beakers feature a low form design for better stability
- Made of translucent autoclavable polypropylene
- Graduated



Cat. No.	Capacity (Metric)	Price
S30728	5000mL	55.00/Ea

## Fisher Science Education™ Polypropylene Beakers with Handles Set

Set of four beakers.



Consists of one each:

- 250mL
- 500mL
- 1000mL
- 2000mL

Cat. No.	Description	Price
S02653	Beaker Set; with Handles	17.50/Ea

## Polypropylene Graduated Pitchers

Chemically resistant and shatterproof

- Metric graduations molded into outside wall
- Steam autoclavable at 121°C (250°F)
- Balanced handle for controlled pouring
- 5000mL (5L) and 10000mL (10L) models feature an updated molded handle for a more secure grip, and a redesigned hand-slot at base for easy lifting



Cat. No.	Capacity (Metric)	Price
S14338	500mL	8.85/Ea
S14339†	1000mL	13.00/Ea
S14337††	1000mL	173.00/Ea
S14340	2000mL	19.00/Ea
S14341	3000mL	24.00/Ea
S14342	5000mL	71.00/Ea

†Short (6.6 in.), 50mL graduations

†† Tall (12.6 in.), 100mL graduations

## United Scientific™ Graduated Polypropylene Beakers

Ideal for general laboratory use.

- Easy-to-read, silk-screened printed graduations
- Tapered design is convenient for stacking and holding
- With pouring spouts
- Autoclavable



Cat. No.	Capacity (Metric)	Price
S07377	5000mL	55.25/Pk
S07378	10,000mL	57.00/Ea

## United Scientific™ Polypropylene Tri-Corner Beakers

Tri-corner design that provides three dripless pouring spouts.

- Material: polypropylene
- Flat bottom keeps stir bars centered
- Graduated cylinder with accuracy of ±5%
- Withstand temperatures to 121°C (250°F)
- Autoclavable



Cat. No.	Capacity (Metric)	Price
S01974B	50mL	23.75/Pk
S01974G	1000mL	100.00/Pk
S01974D	250mL	40.25/Pk
S01974E	400mL	56.25/Pk
S01974F	800mL	80.00/Pk

## United Scientific™ Stackable Beakers

Highly flexible polypropylene beakers.

- Gentle squeeze creates a spout anywhere on the rim
- Stacking ribs prevent beakers from sticking together
- In packs of 25



Cat. No.	Capacity (Metric)	Price
S04537	120mL	12.00/Pk
S04538	500mL	22.00/Pk

## United Scientific™ Graduated Polypropylene Pitchers with Handle

Ideal for general laboratory use.

- Easy-to-read, silk-screened printed graduations
- Include rectangular handles for easy carrying and pouring
- With pouring spout
- Autoclavable



Cat. No.	Capacity (Metric)	Price
S07381	5000mL	80.00/Pk
S07382	10,000mL	69.25/Ea

## PTFE Heatable Beaker

PTFE fluoropolymer heatable beaker.

Features the unique combination of a pure PTFE body with a specially formulated stabilized PTFE carbon base as a single molding.



- Totally inert pure PTFE inner surface
- Heatable to 270°C (518°F) without distortion
- Improved heat transfer
- Use with caustic chemicals
- Dimensions: 3.17 × 2.93 × 3.67 in. (8.1 × 7.4 × 9.3cm)
- Diameter: 3 in. (75mm)

Cat. No.	Capacity (Metric)	Price
S01986	100mL	60.50/Ea

## Polymethylpentene Beakers

A safe alternative to glass in the classroom lab.

- Made of clear, shatterproof polymethylpentene
- Autoclavable; withstand temperatures up to 338°F (170°C) (limited exposure)
- Provide excellent chemical resistance
- Permanently molded mL graduations and no-drip pour spouts ensure precise measurement
- Beaker set consists of one each 50mL, 100mL, 250mL, 500mL and 1000mL



**COMPLIANCE:**  
ISO 7056

Cat. No.	Capacity (Metric)	Price
S306943	250mL	65.75/Pk
S306945	1000mL	72.75/Pk

## GSC Go Science Crazy Polypropylene Beaker Jug

Includes a handle and pour spout for ease of use. The Polypropylene Beaker Jug is graduated and available in several sizes.

- Molded from tough translucent polypropylene
- Includes handle and pour spout
- Graduated
- Available in several sizes



Cat. No.	Capacity (Metric)	Price
S13804	500mL	41.75/Cs
S13805	1000mL	64.25/Cs
S13806	2000mL	4.75/Ea
S13807	5000mL	19.25/Ea

## Eisco Polypropylene Beaker,

These polypropylene beakers have excellent optical clarity, very good chemical resistance, and are autoclavable. There have a handle and spout



- 5L capacity
- 250ml graduations
- With Handle and Spout

Cat. No.	Description	Price
S23802	Polypropylene Beaker	18.25/Ea

## Cylinders

### fisherbrand Graduated Cylinders

Single metric scale in tough ceramic enamel.

- Quality borosilicate glass cylinder with pouring lip
- Heavy glass base provides extra stability



Cat. No.	Capacity (Metric)	Graduations	Price
S63455	10mL	0.2mL	13.00/Ea
S63456	25mL	0.5mL	12.25/Ea
S63457	50mL	1mL	15.00/Ea
S63459	250mL	2mL	30.50/Ea
S63458	100mL	1mL	17.25/Ea
S63460	500mL	5mL	42.25/Ea
S63461	1000mL	10mL	62.50/Ea

## Kimble™ KIMAX™ Cylinders with Detachable Plastic Base and Bumpers

Calibrated "To Deliver"

- Borosilicate glass cylinders
- Graduated with single blue metric scale
- All cylinders except 10mL size are supplied with SafeGard™ bumpers
- Plastic bases and bumpers can be replaced



**ORDERING INFORMATION:**  
Sold in packs of 6

Cat. No.	Capacity (Metric)	Graduations	Price
S31857	10mL	0.2mL	57.75/Pk
S31858	25mL	0.5mL	91.00/Pk
S31859	50mL	1mL	98.00/Pk



## Eisco Graduated Cylinder with Guard

Borosilicate glass graduated cylinder included with plastic guard. Plastic detachable Hexagonal base.

- Class B
- 100mL capacity
- 0.2mL graduations



Cat. No.	Description	Price
S27969	Graduated Cylinder with Guard	2.80/Ea

## DWK Life Sciences Kimble™ Graduated Cylinders, “To Contain”

Class B with spout.

- Calibrated “To Contain” at 20°C
- 10mL size has enlarged funnel top for ease of filling
- Kimax KG-33 glass
- With hexagonal base flat ground for added stability

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standard. Cylinder designed to ASTM E-1272, Style 1, Class B specification requirements.



Cat. No.	Capacity (Metric)	Graduations	Price
S00037	10mL	0.2mL	298.00/Cs
S00040	100mL	1mL	352.00/Cs
S00041	250mL	2mL	233.00/Cs
S00042	500mL	5mL	207.00/Cs
S00043	1000mL	10mL	178.00/Cs

## Graduated Cylinders, “To Deliver,” Class B

With double reverse scale and spout.

- Kimax KG-33 glass cylinder calibrated “To Deliver”
- 10mL size has enlarged funnel-shaped top for ease of filling
- 10 and 25mL sizes are comparatively short to provide increased stability
- Durable white ceramic enamel scale has two sets of numerals: one reading from bottom to top of the cylinder (ascending), the other reading from top to bottom (descending)

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standard. Cylinders designed to ASTM E-1272, Style 1, Class B specification requirements.



Cat. No.	Capacity (Metric)	Graduations	Price
S00046	25mL	0.5mL	186.00/Cs
S00047	50mL	1mL	154.00/Cs
S00051	1000mL	10mL	250.00/Cs

## Graduated Cylinders

Have durable white scale and convenient marking spot.

- KIMAX™ KG-33 borosilicate glass
- Provided with a detachable, plastic hex base, which provides for compact storage when not in use
- SAFE-GARD™ bumper is supplied with all sizes except the 10mL
- Hexagon base
- Autoclavable



Cat. No.	Capacity (Metric)	Graduations	Price
S01514	25mL	0.5mL	119.00/Cs
S01516	100mL	1mL	137.00/Cs

## fisherbrand Standard Class B Graduated Cylinders

Calibrated “To Deliver”.

- Borosilicate glass
- White-ceramic graduations
- Heavy round bases
- Handy pouring spouts
- Accuracy is assured even at the lowest graduations; first 10%; volume is not graduated

Cat. No.	Capacity (Metric)	Graduations	Price
S328541B	100mL	1mL	32.75/Ea

## KIMAX™ Educational-Grade Cylinder with Single White Metric Scale

Calibrated To Deliver

- Class A
- Great choice for use in the classroom, as well as for many general laboratory procedures
- Made of sturdy borosilicate glass
- Incorporates many of the features of Kimax cylinders
- Available in seven different capacities ranging from 10mL to 1000mL with metric markings

### COMPLIANCE:

USP Type I, ASTM E438



Cat. No.	Capacity (Metric)	Graduations	Price
S31889	100mL	1mL	71.50/Pk

## Eisco Class B Graduated Cylinder with Hex. Base and Spout

The sturdy borosilicate glass graduated cylinder is ideal for measuring liquids. The graduation markings make it easy to read liquid levels and the spout allows for liquids to be poured from the vessel with little spillage.



Cat. No.	Capacity (Metric)	Price
S15490	10mL	5.35/Ea
S15489	25mL	6.50/Ea
S23905	50mL	5.85/Ea
S15491	100mL	7.30/Ea
S23907	500mL	14.75/Ea
S23908	1000mL	23.75/Ea

## Eisco Class B Graduated Cylinder with Round Base

Borosilicate glass, Class - B, Round base with spout as per DIN EN ISO 4788



Cat. No.	Capacity (Metric)	Price
S15486	10mL	37.00/Ea
S15455	25mL	3.60/Ea
S15456	50mL	4.90/Ea

## Eisco Class A Graduated Cylinder with Round Base

Borosilicate glass, Class - A, Round base with spout as per DIN EN ISO 4788 standard.

- 1.0ml graduations



Cat. No.	Capacity (Metric)	Price
S15487	50mL	5.35/Ea
S15488	100mL	6.00/Ea

## Eisco Borosilicate Glass Graduated Cylinder Set

- Set of 10, 50 and 100mL cylinders
- All cylinders include plastic guard and plastic detachable hexagonal base
- Class B borosilicate glass ISO 4788 (in 20°C)
- Plastic base and plastic guard are removable for easy cleaning



Cat. No.	Description	Price
S15492	Graduated Cylinder Set	14.75/Ea

## PYREX™ VISTA™ Educational-Grade Cylinders

Calibrated "To Contain."

- Borosilicate glass
- Two-piece construction
- Single metric scale
- Detachable plastic base absorbs impact and reduces breakage
- Durable blue-enamel graduations
- Plastic bumper guards supplied on 25 through 100mL sizes; 10mL size has funnel top
- Tolerance  $\pm 5\%$  of total capacity at any volume
- Nonsterile



Cat. No.	Capacity (Metric)	Graduations	Price
S95186	10mL	0.1mL	110.00/Cs
S95186A	25mL	0.2mL	102.00/Cs
S95186B	50mL	1mL	115.00/Cs
S95186C	100mL	1mL	153.00/Cs

## PYREX™ VISTA™ Class A Cylinder

Calibrated "To Contain."

- Borosilicate glass
- Funnel top pourout
- Nonsterile
- Blue enamel graduations
- Capacity is in accordance with ASTM™ E-1272
- 10mL size has a funnel top for easier filling



Cat. No.	Capacity (Metric)	Price
S76101A	10mL	13.75/Ea
S76101C	50mL	20.25/Ea
S76101D	100mL	34.25/Ea
S76101E	250mL	46.75/Ea
S76101F	500mL	46.00/Ea

## PYREX™ Economy, Double Scale Cylinders

Borosilicate cylinders calibrated "To Contain" (TC)

- Two metric scales for reading up or down
- Shorter than standard cylinders
- Without bumper guards
- Class B
- Nonsterile



Cat. No.	Capacity (Metric)	Graduations	Price
S63258	10mL	0.1mL	17.25/Ea
S63262	250mL	2mL	40.75/Ea

## PYREX™ Lifetime Red™ Cylinders

Calibrated "To Contain"

- Borosilicate glass
- Reinforced bead near top helps prevent breakage
- White-enamel graduations on Lifetime Red background
- Bumper guards are included with the 100mL through 2000mL
- 100mL size in accordance with ASTM E 133 and E 1272; used in ASTM test D 86
- Nonsterile



Cat. No.	Capacity (Metric)	Graduations	Price
S63409	10mL	0.1mL	23.25/Ea

## PYREX™ Single Metric Scale, Graduated Cylinder with Funnel Top

With bumper guards and permanent white enamel marking spot

These PYREX™ graduated cylinders are calibrated "to contain" (TC) and have white enamel graduations. Larger sizes include plastic bumper guards.

- Borosilicate glass
- Permanent, white enamel
- Larger sizes have bumper guards
- 100mL



Cat. No.	Description	Price
S14284	Graduated Cylinder	27.50/Ea

## Graduated Cylinder Set

Set includes an assortment of the most popular sizes.

- Made of borosilicate glass
- Feature a stable glass hex base
- Includes one each of the following sizes: 10, 25, 50, 100 and 250mL
- All but 10mL size include a plastic SafeGard™ bumper



Cat. No.	Description	Price
S32139	Graduated Cylinders, Set of 5	146.00/Pk

## PYREX™ VISTA™ Class A Cylinder

Calibrated "To Deliver"

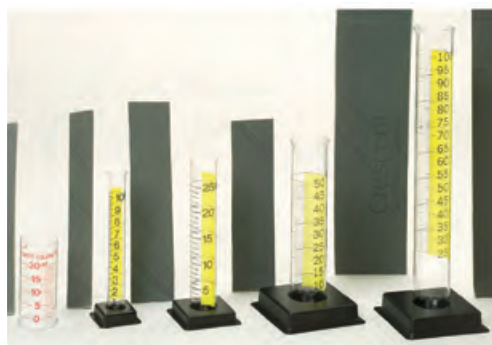
- Borosilicate glass
- Blue enamel graduations
- Capacity is in accordance with ASTM E-1272
- 10mL size has a funnel top for easier filling
- Nonsterile



Cat. No.	Capacity (Metric)	Price
S76102C	50mL	34.25/Ea
S76102D	100mL	42.50/Ea
S76102F	500mL	46.00/Ea

## Economy Cylinder Starter Kit

Each student can have a set.



Contains the four graduated cylinders needed for most laboratory experiments.

### INCLUDES:

One each of 10, 25, 50 and 100mL cylinders, a density volume finder for water volume displacement experiments and a plastic storage case

Cat. No.	Description	Price
S32808	Cylinder Starter Kit	12.75/Ea

## Corning™ Single-Metric Scale Reusable Graduated Cylinders

Translucent polypropylene cylinders with raised graduations at primary scale points.

- Hexagonal base
- Calibrated "To Contain" (TC)
- Tolerances according to ISO 6706
- Exposure to temperatures above 60°C may affect accuracy.
- Autoclavable
- Max. Temperature: 60°C

**COMPLIANCE:**  
ISO 6706



Cat. No.	Capacity (Metric)	Graduations	Price
S02290E	500mL	5mL	169.00/Cs
S02290F	1000mL	10mL	306.00/Cs

*fisherbrand*

## Polymethylpentene Graduated Clear Cylinders

Easy-to-read transparent cylinders with large molded-in graduations.

- Withstand autoclaving temperatures of up to 175°C
- All-plastic construction eliminates liquid meniscus for easier and more accurate readings
- Octagonal bases improve stability



Cat. No.	Capacity (Metric)	Price
S32813A	100mL	31.75/Ea
S32814A	250mL	39.75/Ea
S32815A	500mL	49.75/Ea
S32816A	1000mL	69.00/Ea

## Eisco Polypropylene Cylinders

Base provides good stability.

- Made of polypropylene
- Single piece, autoclavable, graduated
- Good contact clarity



Cat. No.	Capacity (Metric)	Price
S95171A	10mL	28.75/Pk
S95172A	25mL	20.50/Pk
S95173A	50mL	26.75/Pk
S95174A	100mL	30.75/Pk
S95175A	250mL	26.00/Pk
S95176A	500mL	21.75/Pk
S95177A	1000mL	29.25/Pk
S95178A	2000mL	33.00/Pk
S95179A	One each of: 10, 25, 50, 100, 250, 500, 1000, 2000mL	33.75/Pk

## United Scientific™ Plastic Graduated Cylinders

A convenient classroom set of seven graduated polypropylene cylinders in sizes 10, 25, 50, 100, 250, 500 and 1000mL.

- Shipping weight: 1.75 lb. (0.7kg)
- Dimensions: 15.5 × 10 × 4 in. (39.37 × 25.4 × 10.16cm)



Cat. No.	Description	Price
S01973	Plastic Graduated Cylinders Set	33.25/Ea

## Holdfast™ Graduated Cylinders

Pour securely and safely with an easy pour handle. SP Scienceware™ Holdfast™ Graduated Cylinders are available in multiple sizes. These one-piece cylinders are autoclavable and chemical-resistant.

- Easy-to-read double scale with raised graduations
- Hexagonal base prevents tipping and rolling
- Will not create a meniscus
- Handle opening: 8.9 x 2.9cm (3 x 1.125 in.)
- Chemically resistant; autoclavable at 121°C (250°F)
- Polypropylene



Cat. No.	Capacity (Metric)	Graduations	Price
S32820	1000mL	10mL	34.00/Ea

## Eisco Graduated Cylinders with Round Base

Round base provides good stability.

- Made of polypropylene
- Raised graduations



Cat. No.	Capacity (Metric)	Price
S14094	10mL	1.05/Ea
S14095	25mL	1.10/Ea
S14096	50mL	1.55/Ea
S14097	100mL	2.05/Ea
S14111	250mL	2.55/Ea
S14098	500mL	4.10/Ea
S14099	1000mL	10.25/Ea



## Eisco Class B Graduated Cylinder with Hexagonal Base

These polypropylene graduated cylinders have a hexagonal base, are made from a single piece and are autoclavable.



Cat. No.	Capacity (Metric)	Price
S14101	10mL	0.70/Ea
S14102	25mL	1.05/Ea
S14103	50mL	1.55/Ea
S14104	100mL	1.80/Ea
S14105	250mL	2.40/Ea
S14106	500mL	4.10/Ea

### Flasks

## AquaPhoenix™ Flask Set

Ideal for laboratory use.



- Glass
- Includes one each of 50, 125, 250, 500 and 1000mL

Cat. No.	Description	Price
S04407	Flask set	46.75/Pk

## PYREX™ Erlenmeyer Flask Set

Five popular sizes in one set.



- Convenient set provides all the sizes you need without purchasing multiple packs
- Set contains one each of 50mL, 125mL, 250mL, 500mL and 1000mL

Cat. No.	Description	Price
S63267	Erlenmeyer Flask Set	55.25/Cs

## PYREX™ VISTA™ Erlenmeyer Flasks

Uniform wall thickness provides the proper balance between mechanical strength and thermal shock resistance.

- Borosilicate Glass
- Narrow mouth
- Approximate graduations in durable blue enamel
- Extra-large marking space

### ORDERING INFORMATION:

Sold in packs of 12.

### COMPLIANCE:

Designed to ASTM™ E-1404, Type 1.



Cat. No.	Capacity (Metric)	Price
S76106B	50mL	59.75/Pk
S76106D	250mL	51.75/Pk
S76106E	500mL	32.75/Pk
S76106F	1000mL	62.00/Pk

## Eisco Glass Erlenmyer Flasks

Borosilicate glass Erlenmeyer flasks



Cat. No.	Capacity (Metric)	Price
S23897	25mL	19.50/Dz
S23898	50mL	29.25/Dz
S23899	100mL	32.50/Dz
S23901	500mL	71.00/Pk

## Eisco Wide Necked Conical Flask

A high quality wide neck Erlenmeyer Conical Flask made of borosilicate glass.

### COMPLIANCE:

DIN ISO 24450 standard

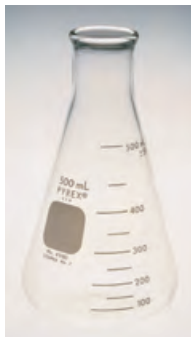


Cat. No.	Capacity (Metric)	Price
S27997	100mL	2.40/Ea
S15471	250mL	5.35/Ea
S23909	500mL	5.30/Ea
S23910	1000mL	11.50/Ea
S15472	2000mL	30.75/Ea

## PYREX™ Erlenmeyer Flasks

Heavy-duty rim and uniform wall thickness.

- Made of Pyrex borosilicate glass
- Designed with heavy-duty rims to reduce chipping
- Provide the proper balance between mechanical strength and thermal shock resistance
- Durable enamel markings with large marking spot
- Narrow neck
- Nonsterile



Cat. No.	Capacity (Metric)	Price
S63268	25mL	75.00/Pk
S63269	50mL	73.25/Pk
S63270	125mL	69.25/Pk
S63271	250mL	68.75/Pk
S63272	300mL	66.25/Pk
S63273	500mL	42.50/Pk
S63274	1000mL	69.50/Pk
S63275	2000mL	34.50/Ea

## Heavy-duty Erlenmeyer Flasks with Wide Mouth and Tooled Lip

Our thick-walled, heavy-duty flasks are perfect for use on shakers

The wide-mouth design and tooled lip of this flask work extremely well with stoppers (Kimble 26650).

- Borosilicate Glass



Cat. No.	Capacity (Metric)	Price
S340861	125mL	110.00/Pk
S340901	2000mL	153.00/Pk

## Eisco Narrow Neck Erlenmeyer Flask, 3.3

Eisco Labs Glass Erlenmeyer Narrow Neck Flask

- Borosilicate glass
- 100mL



Cat. No.	Description	Price
S15465	100mL	2.90/Ea
S27996	50mL	1.80/Ea

## Narrow Mouth Erlenmeyer Flasks

Economical and versatile; ideal for general laboratory usage.

- Borosilicate glass
- Kimax™ KG-33 glass Reinforced tops tooled with a rounded finish — contain more glass for maximum mechanical strength
- Thick-walled body has long tapered outside contour to minimize chipping when struck or rubbed together
- Durable white ceramic enamel scales indicate approximate volumes at various levels — useful for measuring and mixing solutions where a high degree of accuracy is not necessary



### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E1404, Type I, Class 1 specification requirements.

Cat. No.	Capacity (Metric)	Price
S00140	25mL	52.75/Pk
S00144	250mL	62.25/Pk
S00145	500mL	41.50/Pk

## PYREX™ Heavy Duty Wide Mouth Erlenmeyer Flasks

High mechanical strength under harsh conditions

Heavy duty flasks with thicker glass walls with- stand mechanical shock or washers and shakers. Wide mouth is recom- mended for use as a titration flask. White enamel markings and large marking spot.

- Borosilicate Glass

Cat. No.	Capacity (Metric)	Price
S63281	250mL	81.00/Pk
S63284	2000mL	44.00/Ea



## Narrow Mouth Erlenmeyer Flasks

Made of quality borosilicate glass.

- Perfectly suited for general laboratory use
- White ceramic enamel marking spot and a capacity scale for ease of reading
- Sizes 25, 50, and 125mL are ideal for microscale measurements



Cat. No.	Capacity (Metric)	Price
S340152	125mL	95.00/Pk

## Screw Cap Erlenmeyer Flasks

Ideal for either mixing or storing culture media

Each flask features a narrow mouth design, a screw cap with a rubber liner, white ceramic enamel gradations, and a marking spot (Kimble 26505).

- Borosilicate glass
- Narrow mouth



Cat. No.	Capacity (Metric)	Graduations	Graduation Range	Height (English)	Price
S34028	1000mL	50mL	250 to 1000mL	8.46 in.	280.00/Pk

### Specialty Flasks

## fisherbrand Covered Lead Rings for Flasks

Protect and stabilize expensive glassware with these Vikem™ vinyl-coated lead rings.

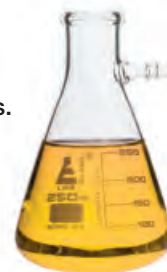
- Stabilize glassware immersed in water baths; reduces floating, breakage and chemical spills
- Bright red Vikem™ vinyl coating
- Chemical-resistant
- Will not scratch flasks



Cat. No.	Diameter (Metric) Inner	For Flask Sizes	Price
S90139A	4.1cm	125 to 500mL	27.50/Ea
S90139B	5.1cm	250 to 1000mL Erlenmeyer Flasks immersed in water baths	30.00/Ea
S90139C	5.6cm	500 to 2000mL	35.75/Ea
S90139D	7cm	1000 to 4000mLs	38.75/Ea

## Eisco Conical Filtering Flask with Integral Side Arm

The borosilicate glass conical filtering flask with integral side arm is ideal for storage, mixing, and transferring of various solutions. The flask is easy to use in any lab with its flat bottom, side arm, narrow neck, and beaded rim.



Cat. No.	Capacity (Metric)	Price
S15463	250mL	9.70/Ea
S15464	500mL	13.25/Ea
S23918	1000mL	18.00/Ea

## Heavy-Wall Filtering Flasks

Made with a heavier wall than a standard Erlenmeyer flask.

- Borosilicate glass
- With side tubulation and capacity scale
- Designed to take one atmosphere of vacuum or 29 in. (73.7cm) of mercury
- Sizes 25 through 500mL have side hose connection designed to accept 0.31 in. (7.9mm) I.D. flexible tubing
- Sizes 1000mL and larger accept 0.38 in. (9.66mm) I.D. tubing



### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E1406, Type II, Class 1 specification requirements.

Cat. No.	Capacity (Metric)	Price
S00112	50mL	119.00/Pk
S00114	125mL	201.00/Pk
S00117	1000mL	252.00/Pk
S00118	2000mL	61.50/Cs

## PYREX™ VISTA™ Micro Filter Flask

Small flasks recommended for microchemical use.

- Borosilicate glass
- Permanent blue enamel marking spots
- With tubulation
- 125mL



### COMPLIANCE:

Designed to ASTM™ E-1406, Type 2.

Cat. No.	Description	Price
S76107C	Micro Filter Flask	160.00/Pk

## PYREX™ VISTA™ Heavy-Wall Filter Flask

With sidearm tubulations and graduated to show approximate capacity.

- Borosilicate glass
- Neck finish affords a good fit for rubber stoppers
- Tubulation O.D. on sizes up to 33.81 oz. (1000mL) is 0.39 in. (10mm)



### COMPLIANCE:

Designed to ASTM™ E-1406, Type 2.

Cat. No.	Capacity (Metric)	Price
S76108B	500mL	143.00/Pk
S76108A	250mL	113.00/Pk

## Corning™ PVC-Coated Filtering Flask with Tubulation

Feature PVC coating for longer life and safety.

- Borosilicate glass
- Quality filtering flasks with side tubulation
- Tooled necks accept hose/tubing that has an inner dimension of 8mm (0.31 in.)
- 500mL



Cat. No.	Description	Price
S339241	PVC-Coated Filtering Flask	277.00/Cs

## PYREX™ Distilling Flask

The Pyrex™ name, synonymous with high-quality glassware, assures durability of these distilling flasks. Feature an extended arm.

- 250mL
- 13cm side arm
- Long neck



Cat. No.	Capacity (Metric)	Price
S34175	Distilling Flask	145.00/Pk

## Corning™ Culture Flask

Feature durable, polystyrene construction and compact design.

- Ridges allow for stable stacking
- Slanted neck provides maximum pipet access to contents
- Capacity: 275mL



Cat. No.	Description	Price
S304661	Culture Flask	34.32/Pk

## Eisco Florence Boiling Flask

Flat bottom Florence boiling flask made of heavy duty borosilicate glass. Flask has a flat bottom. Long neck, Stopper not included. The flask is ideal for dealing with liquids at different temperatures due to its thick-walled design.

- 500mL
- Narrow neck
- Beaded rim

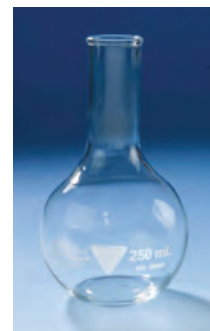


Cat. No.	Description	Price
S27995	Florence Boiling Flask	4.90/Ea

## Flat-Bottom Florence Boiling Flask

Low coefficient of expansion to resist thermal shock.

- Glass
- 500mL
- Reinforced tooled tops for strength and a secure stopper fit
- Sturdy Kimax™ KG-33 glass walls minimize mechanical breakage



### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E1403, Type I, Class 1 specification requirements.

Cat. No.	Description	Price
S00061	Flat-Bottom Florence Boiling Flask	60.25/Cs

## PYREX™ VISTA™ Round-Bottom Boiling Flasks

Designed for great shock resistance.

- Full length standard taper outer joints
- Short necks
- Manufactured from No. 7740 borosilicate glass
- Wall thicknesses provide balance between thermal expansion and mechanical strength

### COMPLIANCE:

Designed to ASTM™ E-1403.



Cat. No.	Capacity (Metric)	Standard Taper Joint	Price
S76105C	500mL	24/40	50.25/Pk



## Eisco Class B ASTM Volumetric Flask with Glass Stopper

These borosilicate glass flasks have blue markings and are fitted with solid glass stoppers. They are in compliance with ASTM-E288 standard and come in a variety of capacities, tolerances, and closure sizes.



Cat. No.	Capacity (Metric)	Tolerance	Closure Size	Price
S23811	25mL	±0.060mL	Stopper No. 9	4.05/Ea
S23812	50mL	±0.100mL	Stopper No. 13	4.80/Ea
S23813	100mL	±0.160mL	Stopper No. 13	5.65/Ea
S23816	1000mL	±0.600mL	Stopper No. 22	13.00/Ea

## Volumetric Flasks with Polyethylene Snap Caps

Borosilicate glass flasks supplied with snap caps.

**COMPLIANCE:**  
Meet Class B requirements.

Cat. No.	Description	Price
S30876	25mL	232.00/Pk
S30872	100mL	189.00/Pk
S30877	250mL	172.00/Pk



## Eisco Class B Volumetric Flasks

Class "B" borosilicate glass volumetric flask with one graduation mark. Fitted with chemical resistance polypropylene stopper. As per DIN ISO 1042 standard. Blue graduation. Cap.

Cat. No.	Capacity (Metric)	Price
S13967	25mL	6.05/Ea
S13968	100mL	8.50/Ea
S13969	250mL	11.75/Ea



## PYREX™ Class A Volumetric Flask with PYREX™ Glass Standard Taper Stopper

Improved lab convenience, broad selection and precise volume measurement as well as being manufactured to Class A tolerances

These PYREX™ volumetric flasks provide improved lab convenience, broad selection and precise volume measurement. The strength of these flasks has been increased appreciably through machine-blown bodies to which are sealed heavy-tubing necks tooled for No. 9 Standard Taper glass stoppers. The graduation line is sharp and permanent and large white block letters make the inscription easy to read. These Class A volumetric flasks have been manufactured to Class A tolerances as established by ASTM E- 694 for volumetric ware, ASTM E-542 for calibration of volumetric ware and ASTM E-288 for volumetric flasks.



- PYREX™
- Permanent, white enamel
- Representative sample size calibrated in ISO17025 Laboratory

Cat. No.	Description	Price
S14289	25mL	184.00/Pk
S14290	50mL	197.00/Pk
S14291	100mL	211.00/Pk
S14293	250mL	523.00/Pk
S14294	500mL	325.00/Pk
S14295	1L	65.75/Ea

## PYREX™ VISTA™ Class A Volumetric Flask

Necks are tooled for standard taper glass stoppers.

- Glass
- Provide precise volume measurement
- Graduation line is sharp and permanent
- Large blue block letters make the inscription easy to read

**COMPLIANCE:**

Manufactured to Class A tolerances as established by ASTM™ E-694 for volumetric ware, ASTM E-542 for calibration of volumetric ware, and ASTM E-288 for volumetric flasks.



Cat. No.	Description	Price
S76109D	100mL	227.00/Pk
S76109J	2000mL	110.00/Ea



**HEADLINE DISCOVERIES:**  
SCIENCE HAPPENS

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## Class A Volumetric Flasks

Calibrated "To Contain."

- Kimax™ KG-33 glass Single graduation ring blasted on the neck
- With plug stopcock ground glass stopper and marking spot

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E288, Class A unserialized requirements.

Cat. No.	Description	Price
S00120	10mL	237.00/Cs
S00121	25mL	201.00/Pk
S00122	50mL	197.00/Pk
S00123	100mL	205.00/Pk
S00124	200mL	236.00/Pk
S00126	500mL	289.00/Pk



## Class B Volumetric Flasks with Snap Cap

Calibrated "To Contain."

- Kimax™ KG-33 glass
- Graduation ring blasted on neck, tooled for included polyethylene snap cap
- Enlarged top of the cap protects neck if flask is tipped over

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E288, Class B, unserialized requirements.

Cat. No.	Capacity (Metric)	Price
S00135	50mL	88.00/Pk
S00137	250mL	134.00/Pk
S00138	500mL	184.00/Pk



## Class A Volumetric Flasks with Snap Cap

Calibrated "To Contain."

- Kimax™ KG-33 glass Class A accuracy but without a serial number
- With polyethylene snap cap

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E288, Class A unserialized requirements.

Cat. No.	Capacity (Metric)	Price
S00129	50mL	153.00/Pk
S00130	100mL	167.00/Pk
S00132	500mL	274.00/Pk
S00133	1000mL	73.50/Ea



## Corning™ Class A Reusable Volumetric Flasks

Autoclaved to 121°C.

- Tapered polypropylene stopper with an individually calibrated graduation line
- Supplied with an imprinted lot number and certificate
- Translucent flask
- Height dimension is for flask only

Cat. No.	Capacity (Metric)	Price
S02288B	50mL	209.00/Cs
S02288C	100mL	224.00/Cs
S02288D	250mL	220.00/Cs



## PYREX™ VISTA™ Class B Volumetric Flasks with Snap Caps

Capacity tolerances are twice those specified for Class A volumetric ware.

- Large, blue, block letters make inscriptions easy to read
- Sharp, permanent graduation lines
- LDPE Snap caps are supplied with all sizes
- Flat bottom
- Calibrated to contain
- Long neck

Cat. No.	Capacity (Metric)	Price
S95185A	25mL	187.00/Pk



## Corning™ Class A Reusable PMP Volumetric Flasks

Autoclaved to 121°C.

- Perfluoroalkoxy screw cap
- Screw caps provide hermetic seals, reducing the possibility of outside contamination
- Withstand high temperatures and are resistant to a variety of aqueous solutions and organic solvents
- Translucent flask
- Height dimension is for flask only
- 100mL

Cat. No.	Description	Price
S02289C	Class A Reusable PMP Volumetric Flasks	1826.00/Cs



## Corning™ Class B Reusable Polypropylene Volumetric Flasks

Supplied with tapered polypropylene stopper with an individually calibrated graduation line.



- Translucent polypropylene
- Exposure to temperatures above 60°C may affect accuracy
- Height dimension is for flask only
- 10mL

Cat. No.	Capacity (Metric)	Price
S02287	Class B Reusable Polypropylene Volumetric Flasks	102.00/Cs

## United Scientific™ Flask Stand

For use with round bottom flasks up to 10L.

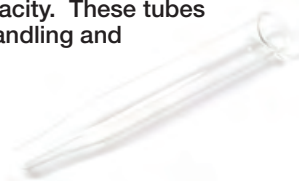


- Polypropylene flask stand
- Ribbed to safely hold flasks in place
- Fully autoclavable

Cat. No.	Description	Price
S04544	Flask Stand	7.30/Ea

## Eisco Conical Centrifuge Tube

Centrifuge tubes with 15ml capacity. These tubes may also be used for sample handling and storage, as well as culturing.



- Borosilicate Glass
- 15ml capacity
- OD x L: 17 x 120mm

Cat. No.	Description	Price
S13965	Conical Centrifuge Tube	19.50/Pk

## PYREX™ Centrifuge Tubes

For microchemical applications.



- Reusable glass centrifuge tubes
- Uniform glass distribution for extra mechanical strength
- Plain, conical bottom
- Beaded rim
- Dia. x L: 17 x 120mm
- Nonsterile

Cat. No.	Capacity (Metric)	Diameter (Metric) Outside	Length (Metric)	Price
S32504A	15mL	17mm	120mm	99.00/Cs

### Tubes

## fisherbrand Clear Glass Threaded Vials with Closures Attached

General-purpose vials.

- Made from Type I, Class B borosilicate glass
- Clear

### INCLUDES:

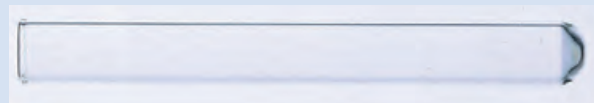
Black phenolic screw-top closures with polyvinyl-faced pulp liner



Cat. No.	Volume (Metric)	Price
S31649	1.8mL	53.25/Pk
S31649B	5.5mL	63.25/Pk
S31649C	7.4mL	66.50/Pk
S31649D	11.1mL	43.00/Pk

## fisherbrand Disposable Flint Glass Tubes with Plain End

Specially annealed to reduce breakage along stress point



- Round bottom
- Smooth top and bottom to prevent cuts
- O.D. x L: 13 x 100mm; 250/tray

Cat. No.	Description	Price
S35900	Disposable Flint Glass Tubes with Plain End	110.00/Cs

## Culture Tubes with Rubber Lined Phenolic Caps

Mineral-filled cap to withstand repeated autoclaving.

- KIMAX™ KG-33 borosilicate glass
- Uniform wall thickness for maximum heat transfer and chemical resistance
- Screw Thread finish complies with Glass Packaging Institute (GPI) requirements
- Cap not attached
- Reusable
- Autoclavable
- Rubber liner

### COMPLIANCE:

Designed from ASTM™ Specification E982, Type VI, Class A requirements



Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Length (Metric)	Price
S00205	16mL	16mm	125mm	177.00/Cs

## KIMAX™ Culture Tube Screw Cap and Rubber Liner

Convenient spot on tube for marking identification.

Caps and liner cement resist high temperature and steam. Round bottom with uniform wall thickness.

- Borosilicate glass
- Reusable
- Marking spot

### COMPLIANCE:

USP Type I, ASTM E 438 Type I, Class A

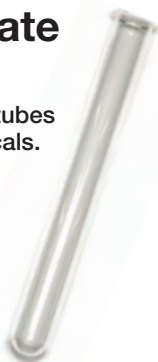


Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Length (Metric)	Thread Size	Price
S36639	20mL	16mm	150mm	15-415	257.00/Pk

## Eisco Rimmed Borosilicate Glass Test Tubes

These borosilicate light walled rimmed test tubes have a strong resistance to heat and chemicals.

- Autoclavable



Cat. No.	Capacity (Metric)	Price
S28030	12x100mm	7.15/Pk
S28032	16x150mm	12.25/Pk
S28033	18x150mm	7.35/Pk
S28034	20x150mm	7.75/Pk
S28036	25x250mm	15.00/Pk

## Test Tubes

Made from Kimax™ KG-33 glass tubing.

- Sturdy lip
- Uniform wall thickness for maximum heat transfer and chemical resistance

### COMPLIANCE:

Glass meets Type 1, Class A, ASTM™ E-438 standards. Designed to ASTM Specification E982, Type I specification requirements.



Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Length (Metric)	Price
S00179	10mL	13mm	100mm	38.00/Pk
S00183	28mL	18mm	150mm	46.25/Pk

## Test Tubes with Lip and Marking Spot

Durable Kimax borosilicate tubes.



Quality glass test tubes with lip and ceramic enamel marking spot.

### COMPLIANCE:

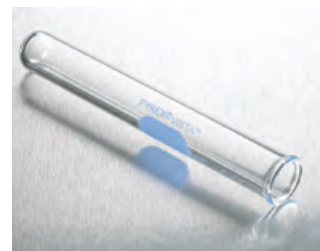
ASTM E982, Type I

Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Length (Metric)	Price
S30613A	28mL	18mm	150mm	97.00/Pk
S30614A	36mL	20mm	150mm	134.00/Pk

## PYREX™ VISTA™ Test Tubes with Beaded Rim

Functionality, economy, and quality.

- Borosilicate glass
- Well-annealed
- Fire-polished rims
- Heat-resistant and chemically stable
- With blue marking spot (except 0.98 in. [25mm] O.D. tubes)
- Without caps
- Round bottom



Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Length (Metric)	Price
S76110E	3mL	10mm	75mm	21.50/Pk
S76110G	9mL	13mm	100mm	22.25/Pk
S76110H	14mL	15mm	125mm	28.75/Pk
S76110J	20mL	16mm	150mm	46.25/Pk
S76110K	27mL	18mm	150mm	56.00/Pk
S76110M	55mL	25mm	150mm	99.00/Pk



## PYREX™ VISTA™ Culture Tubes with Phenolic Screw Caps

Functionality, economy and quality.

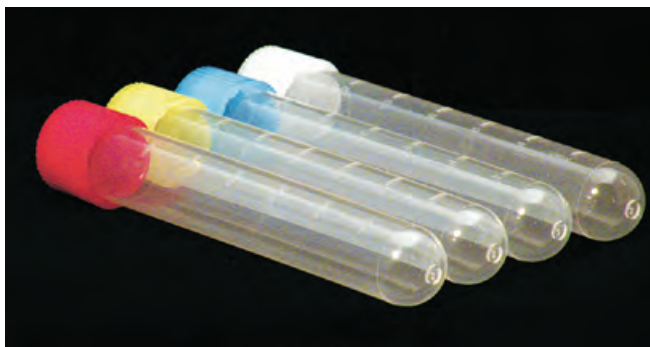
- Borosilicate glass
- Black caps
- Reusable
- Rubber cap liner
- Round
- Untreated surface
- Supplied with deep-form phenolic caps to facilitate handling and sealing after autoclaving
- Blue enamel marking spot provides excellent surface for pencil notations
- Pencil marks are easily erased
- Replacement caps available



Cat. No.	Capacity (Metric)	Diameter (Metric) Outer	Length (Metric)	Price
S76112C	15mL	16mm	125mm	85.00/Pk

## Test Tubes

15mL test tubes with screw caps.



- Leakproof and suitable for centrifugation up to 4000rcf
- Clarified polypropylene
- Graduated from 2 to 12mL with 2mL subdivisions
- Design of cap avoids any contamination due to drops of liquid on the inner surface
- Dimensions: 0.76 x 4.04 in. (1.93 x 10.26cm)
- Blue

Cat. No.	Closure Color	Price
S01983B	Test Tubes	29.25/Pk

## KIMAX™ Plastic Test Tubes

An economical alternative to glass.

Plastic test tubes can be used in place of glass for most routine laboratory procedures.

### Polypropylene tubes

- Can be centrifuged up to 3000rcf
- Autoclavable up to 120°C for 15 minutes
- Tolerate most common acids and solvents at room temperature

### Polystyrene tubes

- Not autoclavable
- Can be centrifuged up to 1400rcf
- Tolerate aqueous solutions, mild bases and weak acids



### ORDERING INFORMATION:

Sold in packs of 250.

Cat. No.	Material	Description	Price
S32169	Polystyrene	1400 x G	40.00/Pk
S32168	Polypropylene (PP)	3000 x G	23.25/Pk

## Test Tube Baskets with Lids

Perfect for dipping, transporting and storing test tubes.



- Polypropylene
- Can be used for transporting small lab animals
- Do not autoclave

Cat. No.	Dimensions (L x W x H)	Price
S47849	9 x 9 x 9 in. (22.9 x 22.8 x 22.8cm)	49.00/Ea
S47848	6 x 6 x 6 in. (15.2 x 15 x 15.2cm)	43.00/Ea

Magnifiers

### Eisco Reading Glass Magnifiers

Three sizes for quick, convenient magnification.

- Glass lens
- Chrome-plated metal frames with plastic handles
- Packed in cardboard box



Cat. No.	Dimensions (L x W x H)	Magnification	Price
S95955	7.8 x 7 x 6.2 in. (20 x 18 x 16cm)	2.5x	9.85/Ea
S95953	6.2 x 6.2 x 2.75 in. (16 x 16 x 7cm)	3x	11.00/Ea
S95954	7.4 x 6.2 x 3.14 in. (19 x 16 x 8cm)	2.25x	10.50/Ea

### United Scientific™ Clear Plastic Magnifier

Features dual lenses of 3X and 6X magnification.

- Length: 4.5 in. (11cm)
- Magnification: 3X, 6X
- Diameter: 50mm (3X lens); 20mm (6X lens)



Cat. No.	Price
S19230C	1.05/Ea

### United Scientific™ Plastic Triple Magnifier

Three separate magnifying lenses.

- Molded plastic
- Magnification: 2X, 6X and 8X
- Overall length: 4 in. (10cm)



Cat. No.	Description	Price
S90346	Plastic Triple Magnifier	1.55/Ea

### GSC Go Science Crazy Lens with Pouch Frame



Convenient magnifying lenses that fold into their own handles, allowing them to stay protected when not in use

**INCLUDES:**

- Protective pouch to keep your lens scratch-free
- 50mm dia.
- 2.5X
- Pouch frame



Cat. No.	Description	Price
S39009	Lens with Pouch Frame	1.70/Ea

### GSC Go Science Crazy 21mm, 10X Lens with Metal Frame



21mm, 10X Lens with Metal Frame provides small, convenient magnifying lenses that fold into their own handles, allowing them to stay protected when not in use

**INCLUDES:**

- Protective pouch to keep your lens scratch-free



Cat. No.	Description	Price
S39012	21mm, 10X Lens with Metal Frame	4.75/Ea

### GSC Go Science Crazy Pocket Magnifier

Convenient magnifying lenses folds into its own handle, allowing it to stay protected when not in use

- 27mm dia.
- 5X lens
- Plastic frame



Cat. No.	Description	Price
S39129	Lenses with Pouch Frames	2.10/Ea
S39011	Dual Lenses with Plastic Frame	2.45/Ea

## fisherbrand 3X LED Magnifier Lamp

Magnifier Lamp is the ideal tool to view objects at two times magnification in bright light, with high-contrast and a sharply defined focus

LED magnifier lamp

- Useful in inspection, electronics, quality control, sample examination, and biological analysis
- Brilliant LED light closely resembles daylight for optimal color detection and clarity
- Large viewing area (4 x 2½ inches) is easy to read and arm extension is 31 inches
- Clamps vertically or horizontally to top or side of any edge

**INCLUDES:**  
Clamp



Cat. No.	Description	Price
S14220	3X LED Magnifier Lamp	95.00/Ea

### Notebooks and Writing Supplies

## Laboratory Research Notebook

A functional, economical and professional lab resource.

- Organize the most hectic lab schedule and satisfy the most demanding instructor
- Carbonless duplicate pages are perforated, while the original remains as a permanent record
- Provides detailed instructions on keeping a laboratory notebook Reference tables and charts cover genetic code, amino acids, solutions, buffers, periodic chart and more
- Includes information on common solutions and measurement conversion factors
- Laminated, water-resistant and side-bound, with fold-out flap Paperback, 2005, 50 pages



Cat. No.	Description	Price
S90290	Laboratory Research Notebook	18.50/Ea

## Thermo Scientific™ Laboratory Notebooks

Space for dates and signatures, record-keeping instructions, table of contents and more.

- Sewn-in paper pages
- Waterproof polyethylene cover
- Size: 8.5 x 11 in. (21.6 x 27.9cm)
- Page count: 100



Cat. No.	Color	Length (Metric) Page	Width (Metric) Page	Grid Type	Price
S40525	Burgundy	21.6cm	27.9cm	3 horizontal lines per in.	89.70/Ea
S40527	Burgundy	28.57cm	28.57cm	5mm Grid	32.45/Ea
S40526	Forest Green	28.57cm	28.57cm	6mm Grid	32.45/Pk
S40524	Forest Green	21.6cm	27.9cm	6mm Grid	88.40/Ea

## fisherbrand Marking Pen

Quick-drying ink has no unpleasant odor.

- Fast drying—highly resistant to abrasion and water
- Designed to write on cold and damp surfaces as easily as they write on dry surfaces
- Will not smear when subjected to water or alcohol during normal use
- Ink is permanent on plastic, wood, and ceramic
- Washes off glass, metal, or porcelain surfaces
- Latex-free
- Nonsterile



### ORDERING INFORMATION:

Sold in packs of 10

Cat. No.	Color	Price
S32179	Black	27.25/Pk

## Pipets

**fisherbrand Disposable Soda Lime Glass Pipets**

Ideal for transferring samples to sample cups and for drop counting.

- Carton top folds back — tilts carton into convenient dispensing position
- Tip openings range from 0.80 to 1.20mm
- Top and tip free of sharp edges
- Can be cotton plugged (plugs not included)
- 2mL capacity



Cat. No.	Length (English)	Length (Metric)	Price
S67051	9 in.	15.24cm	27.00/Pk
S67050	5.75 in.	14.6cm	21.00/Pk

**Disposable Pipets**

Nonsterile transfer pipets.



- Made of low-density polyethylene
- Graduated to 3mL, 0.5mL divisions—additional 4mL capacity in bulb

Cat. No.	Description	Price
S304679	Disposable Pipette	37.50/Pk

**PYREX™ VISTA™ Volumetric Pipets**

Reusable and color-coded.



Manufactured to Class A capacity tolerances as indicated by ASTM™ E-969.

- 5mL capacity
- Nonsterile
- White

Cat. No.	Description	Price
S76110D	Volumetric Pipets	136.00/Cs

**Eisco Class A Volumetric Pipette**

20.5 in. Eisco 25mL Volumetric Pipette, Borosilicate glass, 0.030 tolerance, Class A Glass, Individually wrapped

- 25mL capacity
- 20.5 in. length
- 0.030 tolerance
- Individually wrapped



Cat. No.	Description	Price
S28003	Borosilicate Glass Volumetric Pipette	3.65/Ea

**Kimble™ ValueWare™ Class A Volumetric Pipets**

Large, capacity numerals on the bulb.

- Calibrated to deliver
- 51 expansion borosilicate glass
- Tempered tops and tips
- Color-coded for easy identification
- Unserialized
- Reusable, chemical-resistant
- Hold in vertical position without restricting the outflow

**COMPLIANCE:**

Designed from ASTM™ Specification E969, Class A requirements.



Cat. No.	Color Code	Capacity (Metric)	Length (Metric)	Tolerance	Price
S00154	Blue	1mL	31.5cm	±0.006mL	101.00/Cs
S00156	White	5mL	37.5cm	±0.01mL	106.00/Cs

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## fisherbrand Polystyrene Disposable Standard Serological Pipets

Packaged for access to several pipets at a time without contaminating unused pipets.

- Negative graduations on all sizes
- Ascending and descending graduations on all but the 1 and 2mL sizes
- Color-coded pipets permit easy identification by size
- Outer packaging is recyclable
- Designed from ASTM™ E 934
- Conform to ASTM E 1380 for color coding



Cat. No.	Capacity	Color Code	Negative Graduations	Graduations	Price
S68228A	0.033 oz., 1mL	Yellow	0.4mL	0.01mL	20.25/Pk
S68228B	0.067 oz., 2mL	Green	0.6mL	0.01mL	26.75/Pk
S68228C	0.169 oz., 5mL	Blue	2mL	0.1mL	10.54/Pk
S68228D	0.33 oz., 10mL	Orange	3mL	0.1mL	34.50/Pk
S68228F	1.69 oz., 50mL	Purple	10mL	0.5mL	43.80/Pk
S68228E	0.85 oz., 25mL	Red	10mL	0.2mL	16.83/Pk

## Disposable Pipetting Reservoir

Disposable and economical plastic pipetting reservoir. The SP Scienceware™ Disposable Pipetting Reservoirs includes ample clearance for all types of pipettors.

- Ample clearance for all types of pipettors
- Used for extended multichannel pipetting into microwell plates, Mini-Tubes, Cube 2ube™ Tubes and deep well blocks
- 100ml capacity
- Dimensions (L x W x H): 6 x 3.62 x 1.25 in. (15.2 x 9.2 x 3.2cm)
- Capacity: 3.38 oz., 100mL
- Nonsterile



Cat. No.	Description	Price
S97834	Disposable Pipetting Reservoir	81.00/Pk

## Eisco Serological, Research Grade Glass Pipettes

Calibrated for delivery to jet. Last drop expelled by blowing. Accuracy as per Class A. Colour coded. As per DIN ISO 835 standard. Blue Graduation.



- Borosilicate glass
- Autoclavable

Cat. No.	Capacity	Graduations	Price
S28004	1mL	0.1ml	2.85/Ea
S28005	2mL	0.2ml	3.20/Ea
S28006	5mL	0.05ml	3.20/Ea
S28007	10mL	0.01ml	3.65/Ea

## fisherbrand Borosilicate Glass Disposable Serological Pipets with Regular Tip, Standard Length

Regular-tipped pipets have long, slender, tapered tips to speed pipetting

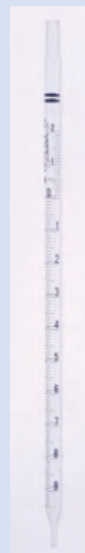
Chemically inert pipets have negative graduations as well as bidirectional scales.

### ORDERING INFORMATION:

Individually wrapped and multipacked pipets come in sterile and plugged; nonplugged bulk-packed pipets are also available.

### COMPLIANCE:

Regular-tip styles have volume tolerances that comply with ASTM™ E 714. Calibrated "To Deliver/Blow Out," Color-coded packaging on all pipets, except bulk packs, allows easy identification by size using ISO™ standard colors.



Cat. No.	Capacity (Metric)	Sterility	Packaging	Price
S35834	1mL	Sterile	Multi-Pack; Inner Pk. Qty: 250	382.00/Cs
S35835	5mL	Sterile	Multi-Pack; Inner Pk. Qty: 250	287.00/Cs

## Polyethylene Dropping Pipets

Disposable polyethylene droppers with tapered tips and bellows-type bulbs.

- Made of non-wetting LDPE
- Give excellent drop formation
- Deliver 30 to 35 drops/mL
- Easy to clean and extra safe
- Graduated
- Disposable



Cat. No.	Capacity (Metric)	Length (Metric)	Price
S18751	1.5mL	13.66cm	33.25/Cs
S18752	5.0mL	18.73cm	55.00/Cs

## Thermo Scientific™ Disposable Transfer Pipets

Chemically inert, polyethylene pipets.

- Unbreakable, one-piece plastic pipets
- One squeeze draws 1.5 to 3.5mL (depending on style used)
- Deliver repeatable drop sizes
- Can be sealed and used to store small amounts
- Length: 5.9 in. (15cm)



Cat. No.	Capacity (Metric)	Type	Material	Price
S304674	2mL	Transfer Pipet: Graduated	PE (Polyethylene)	45.60/Pk
S304672	4.25mL	Transfer Pipet: Thin Stem	LDPE (Low-density Polyethylene)	24.80/Pk
S304671	5mL	Transfer Pipet: Standard	LDPE (Low-density Polyethylene)	17.05/Pk
S304673	7mL	Transfer Pipet: Jumbo Bulb	LDPE (Low-density Polyethylene)	22.75/Pk

## MiniFIX™ Micropipets

Ideal in schools for routine applications where speed and precision are required.

- Compact design
- Single blister packed, with calibration and performance certification
- Push-button is color-coded for easy identification; volume is also printed on product
- Accommodate all common tips
- Good for approximately 5000 pipettings
- Length: approx. 5.12 in. (13cm)



- Autoclavable
- Certifications: ISO8655

Cat. No.	Accuracy	Volume (Metric)	Price
S95713	±1%	10µL	31.00/Ea
S95714	±0.5%	20µL	31.00/Ea
S95721	±0.3%	1000µL	31.00/Ea

## Pipette Pump™ Pipetter

Provides safe, accurate and trouble-free pipetting. Pipette Pump™ Pipettors utilize an easy-to-use one-handed operation.

- Pipettes fit smoothly into its flexible tapered chuck
- Thumbwheel on side is rotated for precision aspirating or dispensing
- Plunger may be pressed for quick emptying
- Resistant to acids and alkalis
- Disassemble all parts for cleaning and before autoclaving at 121°C (250°F) for 20 min.; chuck should not be autoclaved
- Replacement Silicone Rubber Chuck and Washers are available



- Green
- 10mL capacity
- Do not autoclave

Cat. No.	Description	Price
S35821	Pipette Pump Pipetter	47.00/Ea

## fisherbrand Disposable Graduated Transfer Pipettes

Ideal for hematology, urinalysis, chemistry and blood banking — anywhere there is a need for quick, safe transfer of fluids.

Put an end to matching rubber bulb with glass pipette. Since entire unit is disposable, these pipettes prevent cross-contamination to samples and reduce airborne contamination to personnel. Molded in one piece from unbreakable, see-through low-density polyethylene to eliminate the hazards of broken glass and exposure to infectious materials.

- Nonsterile
- 5.8mL capacity with 0.25mL graduations
- Draw 3.4mL per squeeze
- Inert to biological fluids and most acids
- One squeeze draws from 2.0 to 3.3mL (depending on style used)
- All deliver repeatable drop sizes
- Can be sealed and refrigerated for sample storage (seal with Cat. No. 02-678 Hemato-Seal™ Tube Sealant)



### ORDERING INFORMATION:

Available individually wrapped in peel-apart sleeve, or bulk packaged in easy-open bags of 10 or 20.

Cat. No.	Description	Price
S05014	Disposable Graduated Transfer Pipettes	56.40/Pk

## Pipette Pump™ III Pipettors

Easy to use for a longer period of time.

Ergonomic design enhances comfort, utility and dispensing precision while helping to reduce the risk of injury from repetitive and awkward pipetting motions.

- Lightweight, one-handed operation minimizes strain on the hand and wrist
- Fast release trigger dispenses the entire pipette contents
- Optimally located thumb wheel easily rotates for precision aspirating or dispensing, down to a volume of one drop at a time — all while using a relaxed grip
- Compact design adds only 15.2cm (6 in.) to the pipette length allowing use in fume hoods and controlled environment glove boxes
- Self-stabilizing collar inside the silicone chuck holds either glass or plastic pipettes

- Resistant to acids, alkalis and most solvents; can be disassembled for cleaning
- Overall length: 17.1cm (6.75 in.)
- Polypropylene
- Do not autoclave

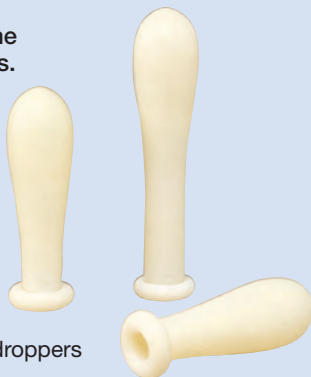


Cat. No.	Color	Description	For Use With (Equipment)	Price
S90142A	Blue	Trigger Release Pipet Filler	2mL	31.00/Ea
S90142B	Green	Pipetter	10mL	31.00/Ea
S90142C	Red	Trigger Release Pipet Filler	25mL	42.00/Ea

## fisherbrand Natural Rubber Bulbs

Replacement bulbs for dropping bottles, medicine droppers and small pipets.

- Made of natural rubber, natural color
- 2mL capacity, 52mmL x 13mmOD (6mm hole dia.)
- 1mL capacity, 43mmL x 13mmOD (5mm hole dia.)
- Designed for use with Pasteur pipettes, small pipettes, and medicine droppers
- Do not autoclave



Cat. No.	Volume (Metric)	Price
S32324	1mL	27.75/Pk
S32325	2mL	27.75/Pk

## Flip Safety Pipetting Ball

Easy to use and clean.

This patented ball fits pipets up to 50mL.

- Press on the bulb to evacuate
- Press on the up arrow to intake solution
- Drain by pressing on the down arrow



Top valve can be removed and reinserted for easy cleaning of the inside

Cat. No.	Description	Price
S32247	Flip Safety Pipetting Ball	14.00/Ea

## One-Piece Pipet Jars

Durable polyethylene pipet jars are resistant to common cleaning preparations used in the laboratory.

- Molded in a single piece with a sturdy flanged base
- Will not fall apart or tip over with full load of pipets
- Leakproof
- 6 in. dia.



Cat. No.	Height (English)	Height (Metric)	Price
S478771	24 in.	61cm	141.00/Ea
S478762	18 in.	45.7cm	137.00/Ea

## Pipet Filler

Fits pipets up to 50mL.

- Precise to 0.01mL
- Chemical-resistant rubber
- Expel air by pressing valve A on top of the bulb
- Draw liquid up by pressing S valve on stem
- To release, press valve E on side of the stem
- Do not autoclave

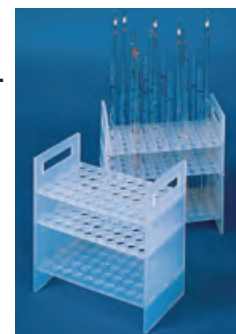


Cat. No.	Color	Material	Price
S32245	Red	Rubber	25.00/Ea
S32244	Black	Rubber	25.00/Ea
S32246	Assorted	Natural Rubber	27.00/Ea

## Pipet Support Rack

Made of autoclavable polypropylene.

- Openings on top and middle decks: 16mm dia.
- Bottom deck: tapered from 16 to 6mm
- Holds 50 pipets



Cat. No.	Description	Price
S478721	Pipet Support Rack	43.00/Ea

## fisherbrand Pipetter Holders

Choice of 3-, 4- or 6-place clear acrylic and 4- or 6-place HDPE holders.

- Accommodate most brands of pipettors
- Upper racks have 1.02 in. (26.1mm) slots
- Lower racks have 0.625 in. (16mm) slots



### ORDERING INFORMATION:

Additional pipetter racks sizes available. To order, contact your Fisher Scientific Customer Service Representative.

Cat. No.	Positions	Material	Color	Price
S04394A	4	Acrylic	Transparent	69.00/Ea
S04394D	6	HDPE	White	88.00/Ea
S04394C	4	HDPE	White	69.25/Ea
S04394B	6	Acrylic	Transparent	112.00/Ea

## PiRack Pipetter Holder System

Rugged polypropylene support allows for easy storage and retrieval of standard brands of pipettors and accessories.

Utilizes component pieces to create a customized organization system.

- Utility tray is supported between two clamps to hold pipetting supplies or other small lab items
- Attaches to a shelf with 1 in. (25.4mm) thickness
- Triple Holder with Clamp — one clamp and two extenders
- Single Holder with Clamp — single pipetter holder with clamp
- Extender — attaches off the side of the clamp to multiply the number of pipettors that can be supported
- Autoclavable at 121°C (250°F)



Cat. No.	Description	Price
S01695	Clamp, Single Holder (2)	36.75/Pk

## Pipetter and Tip Storage Station

Keep pipettors and tips within easy reach.

- Upper rack holds up to six pipettors
- Small footprint allows it to be placed on a benchtop or on a shelf
- Three acrylic bins hold a large quantity of bulk pipet tips
- Acrylic station features a white base, sides and top that can be easily cleaned
- Clear acrylic front of the bin and self-closing lid ensure full visibility of contents
- Large bin for holding a generous number of tips



### ORDERING INFORMATION:

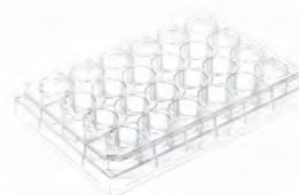
Station dimensions: 9.5 × 16.5 × 6.5 in. (24 × 42 × 16.5cm).

Cat. No.	Description	Price
S97836	Pipetter and Tip Storage Station	234.00/Ea

## Plates

## Kemtec™ Microplates

Ideal for microchemistry experiments.



Cat. No.	Description	Quantity	Price
S193842	24-Well Assay Microplate	6/Pk.	46.50/Pk
S193841	96-Well Assay Microplate	12/Pk.	57.50/Pk

## Racks and Drying Supports

## Poxygrid™ Petri Dish Dispensing Racks

Keep Petri dishes clean and orderly.

Epoxy-coated wire racks allow easy one-at-a-time dispensing of Petri dishes.

- Load 3.9 × 0.5 in. (100 × 15mm) plastic Petri dishes from the top and slide out at the bottom
- Available in two sizes
- Single rack holds 14 Petri dishes; triple rack holds 42



### ORDERING INFORMATION:

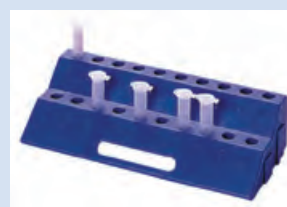
Not suitable for glass Petri dishes.

Cat. No.	Dimensions (L x W x H)	Price
S32182	5.75 x 4.25 x 11 in. (14.5 x 11 x 28cm)	35.00/Ea
S67355	5.75 x 12.75 x 11 in. (14.5 x 32 x 28cm)	124.00/Ea

## fisherbrand 20-Well Tube Rack

Interlock racks for customized storage. Fisherbrand™ 20-Well Tube Racks have sturdy, easy-to-use connections on each side. User-friendly design makes it easy to identify and remove microtubes. Constructed of durable, autoclavable polypropylene.

- Interlock multiple racks to increase tube storage
- Racks lock together on either side
- Easily remove tubes using the "hold-it" finger slot on the front of the rack
- Large molded coordinates for easy tube identification
- Bi-level rack enables easy tube label identification



- 213 × 90 × 50mm
- Pack of 6
- Blue

Cat. No.	Description	Price
S43127	20-Well Tube Rack	43.25/Pk



## Round Bubble Rack

Optimized for use in microbiology and immunology labs

- Made especially for use in beakers—incubate eight to twenty 1.5mL tubes in a beaker of water
- Molded of buoyant polymethylpentene with tiny bubbles throughout for additional buoyancy
- Racks fill at top; tubes remove easily by pressing rack down on bench until legs touch and release tubes
- Tube holes arranged in circular pattern with center rod handle
- Steam autoclavable at 121°C (250°F); can be boiled at 100°C (212°F) for 30 minutes
- Length: 0.75 in. (leg)
- 8 positions



- 400mL beaker
- 1.5mL tubes

Cat. No.	Description	Price
S66814	Round Bubble Rack	19.00/Ea

## Poxygrid™ 50mL Centrifuge Tube Racks

Organizes tubes for storage and processing. Poxygrid™ 50mL Centrifuge Tube Racks.

- Heat-cured epoxy coating is unaffected by organic solvents, salts, weak acids and weak alkalis
- Steam autoclavable at 121 degree C (250 degree F)
- Temperature range: -223° to +121°C (-369° to +250°F)
- Supports 50ml plastic centrifuge tubes in individual wells, each 30mm square
- Autoclavable
- Holds 8x 50mL tubes



Specifications	
Autoclavable	Yes
Material	Epoxy Coated Steel Wire
Holds	50mL Tubes
Type	Rack, Centrifuge Tube

Cat. No.	Positions	Dimensions (L x W x H)	Price
S96710	8	5.87 x 3.18 x 3.62 in. (14.9 x 8 x 9.2cm)	60.00/Ea

## fisherbrand Polypropylene 4-Way Tube Rack

Create as large of a rack as you need by linking together multiple racks.



- 50mL Tubes, 4 Wells (30mm dia.), 15mL Tubes, 12 Wells (17.5mm dia.), 0.5mL Tubes, 32 Wells (8.2mm dia.), 1.5/2.0mL Tubes, 32 Wells (11.6mm dia.)
- Constructed of polypropylene
- Autoclavable

### ORDERING INFORMATION:

Dimensions: 6.8 x 3.7 x 2 in. (17.4 x 9.5 x 5.2cm). Pack of five.

Cat. No.	Color	Price
S97680	Blue	56.50/Pk
S97679	Natural	56.50/Pk
S97685	Assorted	56.50/Pk

## United Scientific™ Wooden Test Tube Racks

Solid hardwood construction.



- 6 positions
- Racks are polished to minimize damage to surface from spills
- One-Tier Rack: six 25mm holes, six drying pins, 0.5 in. (1.3cm) thick base
- Two-Tier Rack: 13-tube capacity, six drying pins
- Do not autoclave

Cat. No.	Description	Price
S99439	Rack, One Tier Tube	7.05/Ea
S99451	Rack, Two Tier Tube	11.00/Ea



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MAKING SCIENCE MATTER

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## Lightweight Plastic Racks

Economical and unbreakable.

Three-tiered polyethylene test tube rack provides better support.

- Holds 19mm tubes



### Specifications

Autoclavable	No
Dimensions (L x W)	7.5 x 2.37 in. (19 x 6cm)
Material	HDPE
Positions	12
Length (English)	7.5 in.
Width (English)	2.37 in.

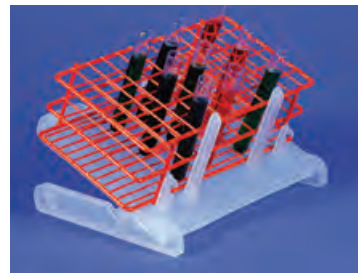
Cat. No.	Description	Price
S47859	Lightweight Test Tube Rack	29.00/Ea

## Rack Slanter

Tilts your test tube rack to 25°, 35° or 45°.

Adjusts the angle of racks to reduce hand strain when working with pipettors.

- Fits racks up to 11.56 x 9.56 x 3.25 in.H (293 x 242 x 83mmH)
- Rigid polypropylene construction
- Great for making perfectly angled agar slant tubes
- Steam autoclavable at 121°C (250°F)



Also for use with the Mini-Magnifier to aid in the viewing of Petri dishes

Cat. No.	Description	Price
S98144	Rack Slanter	25.00/Ea

## United Scientific™ Round Test Tube Rack

Solid high-impact plastic construction.

- Holds 24 tubes up to 20mm in diameter
- Perforated bottom
- Dimensions: 5.7 dia. x 2.75 in.H (145 x 70mm)

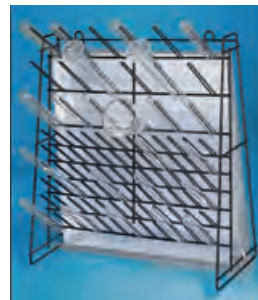


Cat. No.	Description	Price
S90342	Round Test Tube Rack	8.30/Ea

## Glassware Drying Rack

Perfect for large teaching labs.

- Holds 90 pieces of glassware of all kinds with no risk of breakage
- Made of heavy steel wire with welded joints and black vinyl coating
- Use lying down, mounted on wall or standing upright
- Heavy drain-pan of rustproof metal covers entire bottom and back
- Dimensions:  
7.13D x 18.5W x 19 in.H  
(18.11 x 46.99 x 48.26cm)



Cat. No.	Description	Price
S47855	Glassware Drying Rack	178.00/Ea

## No-Wire™ Grip Racks

Test tubes 'Hang in There' in any position, even inverted

Retainer fingers hold tubes firmly in the rack plates with no fear of dislodging, making them perfect for both decanting and water bath work.

- Special blend of autoclavable polypropylene plastic is heavier than water for submerging into water baths
- Features end plates for labeling as well as numbered and lettered rows for tube identification
- Fold up sides lock firmly into the grip decks; assembly takes only seconds
- Unloaded racks are stackable
- Dimensions: 24.8 x 10.5 x 7cmH ( 3/4 x 4 1/8 x 2 3/4 in.)
- Steam autoclavable at 121°C (250°F)

### ORDERING INFORMATION:

Dimensions: 9.75 x 4.125 x 2.75 in. (24.8 x 10.5 x 7cm)



Cat. No.	Holds	Positions	Price
S02530B	15 to 16mm Tubes	60	37.00/Ea
S02530A	10 to 13mm Tubes	90	37.00/Ea
S02530C	18 to 20mm Tubes	40	35.00/Ea

## PoxyGrid™ Labware Drain Stand

Three rows of hairpin-loop supports (14 in all) hold labware with 18mm I.D. necks or larger.

- Top row has 12 straight pins 4 in. (102mm) long to accommodate smaller items
- Polystyrene tray catches water as tubes drain
- Rubber-tipped feet for nonskid use
- Wire loops on the back permit wall mounting
- Dimensions: 16.75 x 6.5 x 19 in. (43 x 17 x 48cm)



Cat. No.	Description	Price
S95183	Labware Drain Stand	147.00/Ea

## Polypropylene Support and Dryer

Stain- and chemical-resistant stand is a convenient test tube dryer.

- One-piece, molded polypropylene test tube holder
- Resists stains and corrosive chemicals
- Unbreakable and easy to clean
- Drying pins hold test tubes while drying
- 8D x 4W x 2.37 in. H
- Do not autoclave



Cat. No.	Description	Price
S47890	Polypropylene Support and Dryer	9.35/Ea

## fisherbrand Blue Epoxy-Coated Racks

Heavy-gauge steel wire racks resist rust, corrosion, abrasives, organic solvents, acids and alkalis.

- Epoxy coatings are unaffected by organic solvents, salts, weak acids and weak alkalis
- Will withstand a temperature range of -223°C (-369°F) to 121°C (250°F); autoclavable
- All racks have square holes, three decks, a slotted grid bottom and reinforced edges



Cat. No.	Positions	Holds	Price
S68126	48	13-16mm Tubes	39.00/Ea
S68125	40	16-20mm Tubes	39.00/Ea
S68124	40	20-25mm Tubes	39.00/Ea
S68123	40	20-25mm Tubes	39.00/Ea
S68122	24	30-40mm Tubes	39.00/Ea

## United Scientific™ Plastic Test Tube Rack

Choose a versatile test tube rack. The United Scientific Supplies Plastic Test Tube Rack features four sides, for 12mm to 25mm diameter test tubes.

- All four sides can be used interchangeably for 12mm through 25mm diameter tubes
- Rack features a total of 88 spaces on its four sides, 8 for 50mL, 20 for 20mL, 24 for 15mL, and 40 for 12mL tubes



Cat. No.	Description	Price
S23992	Plastic Test Tube Rack	18.25/Ea

## Eisco In-Line Test Tube Rack

Keeps your test tubes handy and secure.

- Six openings for 1 in. (25mm) test tubes
- Top plate supported by two columns
- Autoclavable
- Blue polypropylene



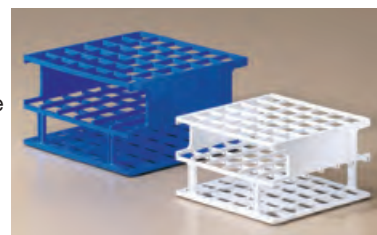
Cat. No.	Description	Price
S95921	In-Line Test Tube Rack	2.20/Ea

## Thermo Scientific™ Nalgene™ Unwire™ Half-Racks

Space-efficient half-racks are ideal for use in incubators, refrigerators, freezers and under fume hoods.

Fit easily in ice or water baths without floating.

- Made of durable ResMere™ performance plastic
- Withstand most lab chemicals and temperatures up to 121°C (249.8°F)
- Repeatedly autoclavable
- Each rack holds 36 tubes



Cat. No.	Autoclavable	Color	Holds	Price
S478322	Yes	Blue	13mm Tubes	15.48/Ea
S478323	Yes	White	16mm Tubes	82.10/Ea



## Funnel Support Rack

Adjustable shelf provides versatility.

Sturdy support is made of heavy-gauge steel rod and electrically spot-welded; rack has no rough edges. Cushioning black vinyl coating helps reduce the possibility of glassware chipping, scratching or breaking.



- Shelf adjusts to six different heights from 4.5 in. (11.4cm) to 13.5 in. (34cm) above base in 1 in. (2.5cm) intervals
- Support base can accommodate 12 beakers of up to 600mL in two rows of six
- Funnels can be positioned in any of 12 places in the shelf
- Rack can be carried by means of top crossbar
- Overall L x D x H: 25.5 x 10.6 x 15.3 in. (65 x 27 x 39cm)

Cat. No.	Description	Price
S47856	Funnel Support Rack	200.00/Ea

## Non-Electric Benchtop Drying Racks

For space- and budget-conscious labs.



Movable V-channel pegs can be repositioned to hold a variety of labware, including beakers, flasks, bottles, test tubes and cylinders.

- High storage capacity: up to 114 peg positions Single-sided benchtop models fit against a wall, conserving bench space
- Double-sided benchtop models provide double the capacity with a slightly larger footprint
- Wall-mount model has mounting points sized to fit standard pegboards to save counter space
- Width: 14.75 in.

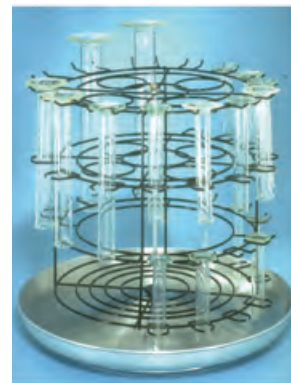
Cat. No.	Depth (English)	Positions	Height (English)	Price
S93964	5 in.	19	9.4 in.	115.00/Ea
S93961	7 in.	38	15.4 in.	248.00/Ea
S93963	10 in.	38	8.4 in.	223.00/Ea
S93962	7 in.	57	22.4 in.	311.00/Ea
S93960	10 in.	76	15.4 in.	341.00/Ea
S93970	10 in.	114	22.4 in.	490.00/Ea

## Graduated Cylinder Support

Safest and most convenient means of drying and storing graduated cylinders.

Eliminates costly replacement of glassware damaged by chipping and breakage due to improper storage.

- Rack holds up to 25 cylinders and revolves for easy removal of dry cylinders
- Made of strong steel rods that are electrically spot-welded, then coated with cushioning black vinyl
- Drain pan of 20" (51cm) diameter is made of heavy-gauge, rustproof aluminum.
- 20" (51cm) diameter x 17"H (43cm)



Cat. No.	Description	Price
S47857	Graduated Cylinder Support	236.00/Ea

## Spatulas and Spoons

### fisherbrand Double-Ended Micro-Tapered Stainless Steel Spatula

Fisherbrand Double-Ended Micro-Tapered Stainless Steel Spatula is perfect for small quantity applications such as sample transfer (e.g. Into test tubes or microcentrifuge tubes).



- Fisherbrand™ Microspatula feature a double-ended design with round and tapered ends
- Perfect for students, instructors and researchers
- Handy tools to scrape solidified material from crucibles and jars
- Corrosion-free and resistant
- Non-stick surface – reduces loss in sample
- Satin/matte, antiglare finish
- ASTM™ standard stainless steel construction
- Model S50823- with small, spoon-like blade end and a resilient Handihold™ handle end
- Length: 5.5 in.

Cat. No.	Description	Price
S50823	Double-Ended Micro-Tapered Stainless Steel Spatula	63.75/Pk



## Eisco Spoon and Spatula Tool

Versatile tool ideal for a wide range of applications.

- 9 in. (22.9cm) long
- Polished
- Sold in packs of six



Cat. No.	Description	Price
S50789A	Spoon and Spatula Tool	51.50/Pk

## Eisco Spatula-Scoop

Versatile stainless-steel spatula with semi-circular cross section.

Versatile stainless steel spatula for use in the lab or kitchen

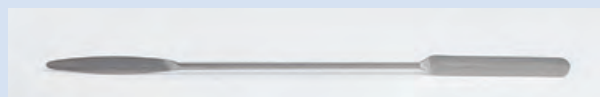


- Semicircular cross section
- One end is rounded and the other is pointed
- Length: 16.51cm (6.5 in.)

Cat. No.	Description	Price
S02602	Spatula-Scoop	15.25/Pk

## fisherbrand Stainless Steel Micro Spatulas, Double-ended, tapered and rounded ends

Transfer small quantities from semimicro centrifuge and test tubes.



Handy tools to scrape solidified material from crucibles and jars. Stock up on these stainless steel micro-spatulas.

- Thin, flexible, rounded and tapered ends.
- Convenient, multi-purpose design
- High Quality Stainless Steel
- Durable, and reliable for educational and research experiments
- Tapered End: Designed to be used for labware with conical-bottom tubes – 0.14 in. (3.5mm)
- Rounded End: Designed to be used for regular/test tubes – 0.25in (6.6mm)

### CERTIFICATIONS:

ASTM, ISO 9001, cGMP

Cat. No.	Description	Price
S50822	Stainless Steel Micro Spatulas, Double-Ended, Tapered and Rounded Ends	55.75/Pk

## smartSpatula™ Disposable Polypropylene Spatula, Blue

smartSpatulas offer an economical, disposable tool for transferring, collecting, and handling chemical and biological materials

- Economical, Polypropylene, Single-Use Laboratory Spatulas
- Ideal for Transferring, Manipulating, and Mixing Materials
- Versatile Double-Ended Design
- Help Minimize Cross Contamination
- Resistant to acids and bases
- Autoclavable
- Blue
- Diameter: 7mm (0.25 in.)
- Length: 210mm (8.25 in.)



Cat. No.	Description	Price
S28420	Disposable Polypropylene Spatula	49.75/Pk

## GSC Go Science Crazy Stainless-Steel Spatula

Semi-micro spatula.



- Spoon's bowl is approximately 1.18 × 0.35 in. (30 × 9mm)
- Spatula end is 1.77 × 0.35 in. (45 × 9mm)
- Overall length is 7.79 in. (19.8cm)
- Sold in packs of 12

Cat. No.	Description	Price
S50788A	Stainless-Steel Spatula	65.50/Pk

## United Scientific™ Spatula Set

Set of six of the most popular spoons and spatulas for the laboratory or the classroom.

One each:

- 4 in. (10.2cm) blade mounted on a hardwood handle
- Microspoon with plastic handle
- 6 in. (15.2cm) stainless-steel, one end flat, one end spoon
- 6 in. (15.2cm) stainless-steel, one end bent, one end flat
- 6 in. (15.2cm) stainless-steel, one end flat, one end tapered
- 6 in. (15.2cm) polypropylene, one end spatula, one end spoon

Cat. No.	Description	Price
S04546	Set of six spatulas	18.00/Ea



## fisherbrand Traceable™ SpatulaBalance™

Unique spatula scoops material and instantly weighs it.

Transfers and weighs crystals, granulated material, solids, liquids, precipitates, chemicals, and expensive matter.

- Balance with digital display is located in the easy-grip handle
- Three-position, soft-touch keys in the handle tare, hold the display and change grams/ounces
- LCD indicates low battery
- Large scoop minimizes spilling
- Chemical- and corrosion-resistant ABS plastic transfers materials without sticking
- Scoop holds 32mL/1.1 fl. oz and scoop volume is 32cm<sup>3</sup>/1.95 cu. in.; detaches from balance for dishwasher-safe cleaning
- Markings on scoop graduated from 5 to 30mL
- Weighing range: 0.0 to 10.580 oz. (0.0 to 300.0g)  
Readability: 0.005 oz. (0.1g)
- Level position repeatability: 0.1g
- Tare range: 0 to 450g

- Linearity: ±0.2g
- Dimensions: 9 × 2 × 1 in. (22.9 × 5.1 × 2.5cm)
- Weight: 3 oz. (85g)

### INCLUDES:

Two AAA batteries

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S95267	SpatulaBalance	55.00/Ea

## United Scientific™ Stainless Steel Laboratory Scoop

Designed for transferring powdered or granular materials.



- For general laboratory use
- 1474g (52 oz.)

Cat. No.	Description	Price
S13084	Stainless Steel Laboratory Scoop	34.50/Ea

## Stoppers

## United Scientific™ Solid Rubber Stoppers

Ideal for use with non-aggressive or concentrated solutions. United Scientific Supplies Rubber Stoppers, Solid Version withstand temperatures from -13° to 158°F (-25° to 70°C).

- Made of solid natural rubber that stays pliable over long period of time
- Low sulfur content
- Size marked in raised figures
- Sold as one-pound bags
- Black
- Size 00



Cat. No.	Description	Price
S23994	Solid Rubber Stoppers	5.90/Pk

## Cork Borer Sets with Handles

Bore holes in corks and rubber stoppers.

- Consist of plated tubing with precision-ground cutting edges
- Smooth plastic handles
- Handles are stamped with a number designation
- Punch included with each set



Cat. No.	Diameter (English) Outer	Diameter (Metric) Outer	Quantity	Price
S50166A	0.18 to 0.31 in.	4.8 to 7.8mm	3 Pack	20.75/Pk
S50166E	0.18 to 0.93 in.	4.8 to 23.8mm	15 Pack	95.00/Pk

## Economical Cork Stoppers

For all of your laboratory needs.



- 15 different sizes
- Laboratory grade
- Size 1
- Length: 1.5cm
- stopper: No. 1

Cat. No.	Description	Price
S49193	Cork Stoppers	34.25/Pk

### Tape and Labeling

## Parafilm M™ Wrapping Film

Waterproof, moistureproof film effectively seals labware.



- Can be folded and twisted around sharp surfaces without rupturing
- Becomes softer and more flexible as temperature increases

Cat. No.	Length (English)	Width (English)	Width (Metric)	Price
S37440	125 ft.	4 in.	10cm	34.25/Ea
S37441	250 ft.	2 in.	5cm	28.25/Ea
S47529	50 ft.	20 in.	51cm	108.00/Ea

## fisherbrand Colored Label Tapes

Strong, durable, waterproof and oil and acid resistant.



- Withstand temperatures from -23° to +121°C (-10° to +250°F)
- Write on with pen, pencil or permanent marker
- Stick to most surfaces, including glass, plastic and metal
- Remove cleanly and easily
- Supplied in 14 yd. (13m) rolls on 1 in. (2.5cm) cores without dispenser

Cat. No.	Color	Width (English)	Price
S68136	Aqua	0.5 in.	52.25/Pk
S68135	Blue	0.5 in.	52.25/Pk
S68702	Gray	0.5 in.	51.00/Pk
S68129	Green	0.5 in.	52.25/Pk
S68134	Orange	0.5 in.	52.25/Pk
S68130	Pink	0.5 in.	52.25/Pk
S68133	Red	0.5 in.	52.25/Pk
S68127	White	0.5 in.	52.25/Pk
S68128	Yellow	0.5 in.	52.25/Pk
S68131	Rainbow	0.5 in.	169.00/Cs
S68145	Aqua	0.75 in.	40.00/Pk
S68144	Blue	0.75 in.	41.00/Pk
S68703	Gray	0.75 in.	40.00/Pk
S68140	Green	0.75 in.	41.00/Pk
S68143	Orange	0.75 in.	41.00/Pk
S68141	Pink	0.75 in.	41.00/Pk
S68142	Red	0.75 in.	41.00/Pk
S68138	White	0.75 in.	41.00/Pk
S68139	Yellow	0.75 in.	41.00/Pk
S68132	Rainbow	0.75 in.	137.00/Cs
S68153	Aqua	1 in.	41.50/Pk
S68152	Blue	1 in.	41.50/Pk
S68704	Gray	1 in.	41.50/Pk
S68148	Green	1 in.	41.50/Pk
S68151	Orange	1 in.	41.50/Pk
S68149	Pink	1 in.	41.50/Pk
S68150	Red	1 in.	41.50/Pk
S68146	White	1 in.	41.50/Pk
S68147	Yellow	1 in.	41.50/Pk
S68137	Rainbow	1 in.	121.00/Cs



# Mercury Exchange Program

Wondering how you can safely dispose of your mercury thermometers? H-B Instrument – SP Scienceware offers a program to help customers rid their laboratory, classroom or facility of hazardous mercury thermometers. Simply purchase one case or more of Enviro-Safe®, Easy-Read® or Double Safe® thermometers featuring nontoxic, nonhazardous, biodegradable, EnviroKleen™ certified, Enviro-Safe® liquid, then contact customer service following the instructions below. You are assured that your hazardous mercury will be properly disposed of.

## Purchase Enviro-Safe – Let Us Recycle Your Mercury



### Mercury Thermometer Replacement and Disposal Program Benefits

- Free, safe disposal of your old, unbroken mercury thermometers
- New, high-accuracy thermometers with no hazards that can be used in place of spirit (hazardous) or mercury (hazardous) thermometers
- Accuracy traceable to NIST
- Four models to choose from: Enviro-Safe®, Easy Read®, and Double-Safe® liquid-in-glass thermometers, and FRIO-Temp® verification thermometers
- PFA safety coating, available on Double-Safe® and FRIO-Temp® models, is perfect for schools, cleanrooms and other critical environments – no glass hazards or contamination if the thermometer is broken

### How to Exchange Your Mercury Thermometers

1. Order a minimum of one case (25 pieces) of Enviro-Safe®, Easy-Read® or Double-Safe® liquid-in-glass thermometers, or one case (5 pieces) of FRIO-Temp, Enviro-Safe or Easy-Read style verification thermometers.
2. Contact H-B Instrument – SP Scienceware at 1-800-423-5278 extension 3301, or email [mercexchange@belart.com](mailto:mercexchange@belart.com) to obtain a return authorization number (RMA) for the mercury thermometers you are returning (maximum allowed for return is equal to the number of thermometers purchased).
3. Ship all non-broken mercury thermometers to be exchanged to H-B Instrument® - SP Scienceware to the address located on the RMA shipping pre-paid. Please enclose a copy of your purchase order or invoice along with the RMA number.

### DO NOT ship broken mercury thermometers.

**Please note:** this program applies ONLY to thermometers. Other materials containing mercury cannot be recycled through this mercury exchange program. Do not ship broken mercury thermometers. Shipping broken mercury thermometers is considered a hazardous waste material shipment and is in violation of Department of Transportation and Environmental Protection Agency regulations. Any person who ships broken thermometers will be fined a minimum \$150 hazardous material fee for each thermometer.



661 Rt. 23 South, Wayne, NJ 07470  
1-800-423-5278 • Email: [info@belart.com](mailto:info@belart.com)



Thermometers

## Fisher Science Education™ Student Grade Red Spirit Partial Immersion Thermometers

Check up to five results to perform an action.

- Glass
- Immersion length: 76mm
- Subdivision: 1°C
- Accuracy 1.5°C
- Partial immersion
- Length: 12 in. (30.5cm)
- Permanently fused markings
- PTFE coating helps prevent liquid and glass contamination if thermometer is broken
- Thermometers should be stored at a 15° angle minimum

### APPLICATION:

Chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

### ORDERING INFORMATION:

Individually packaged.

### CERTIFICATIONS:

ISO/IEC 17025:2005, A2LA, ANSI/SAMA Z236.1-1983, NIST, DKD



Cat. No.	Includes	Temperature Range (Metric)	Temperature Range (English)	Price
S01963P*	PTFE Coating	-20° to 150°C	-4° to 302°F	11.25/Ea
S01963R	PFA Coating	-20° to 110°C	-4° to 230°F	11.25/Ea



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\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
 \*\*\* California - WARNING: Cancer and Reproductive Harm -[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Fisher Science Education™ Student Grade Spirit Thermometers

Check up to five results to perform an action.

- Length: 12 in. (30.5cm)
- Permanently fused markings
- Thermometers should be stored at a 15° angle minimum

### APPLICATION:

Chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

### ORDERING INFORMATION:

Individually packaged.

Cat. No.	Temperature Range (English)	Temperature Range (Metric)	Product Type	Price
S01963A*	-4° to 230°F	-20° to 110°C	Standard	4.10/Ea
S01963C*	-4° to 230°F	-20° to 150°C	Standard	4.00/Ea
S01963D*	14° to 392°F	-10° to 200°C	Wide Range	16.00/Ea
S01963E*	14° to 392°F	-10° to 200°C	Wide Range	16.00/Ea
S01963T*	14° to 230°F	-10° to 110°C	Dual Scale, Partial Immersion	4.05/Ea
S01963G*	14° to 230°F	-10° to 110°C	Dual Scale, Total Immersion	3.85/Ea
S01963H*	-4° to 302°F	-20° to 150°C	Dual Scale	3.75/Ea

## fisherbrand Laboratory Grade Partial Immersion Spirit Thermometers

Check up to five results to perform an action.

- Glass
- Partial immersion
- Length: 12 in. (30.5cm)
- Permanently fused markings
- Thermometers should be stored at a 15° angle minimum

### CERTIFICATIONS:

ISO/IEC 17025:2005, A2LA, ANSI/SAMA Z236.1-1983, NIST, DKD

### ORDERING INFORMATION:

Individually packaged.

Cat. No.	Temperature Range (English)	Temperature Range (Metric)	Price
S02003B*	-4° to 302°F	-20° to 150°C	4.00/Ea
S02003M*	-4° to 230°F	-20° to 110°C	4.10/Ea

## fisherbrand Laboratory Grade Total Immersion Spirit Thermometers

Check up to five results to perform an action.

- Glass
- Total immersion
- Length: 12 in. (30.5cm)
- Permanently fused markings
- Thermometers should be stored at a 15° angle minimum

### CERTIFICATIONS:

ISO/IEC 17025:2005, A2LA, ANSI/SAMA Z236.1-1983, NIST, DKD

### ORDERING INFORMATION:

Individually packaged.

Cat. No.	Temperature Range (English)	Temperature Range (Metric)	Price
S02003A*	-4° to 230°F	-20° to 110°C	11.25/Ea
S02003C*	-4° to 302°F	-20° to 150°C	4.00/Ea

## fisherbrand Durac™ Spirit Green Thermometer

Ideal for use in applications in which a very precise, accurate temperature measurement is required.



- Triangular anti-roll fitting
- Permanently fused markings
- Red spirit liquid with white background glass
- Individually packaged
- Individually serialized with a traceability statement
- -20 to +110°C
- Length: 300mm
- Immersion: 76mm
- Div: 1

### CERTIFICATIONS:

Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA™ Laboratory.

Cat. No.	Description	Price
S02005*	Green Spirit Thermometer	11.25/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## fisherbrand Durac™ Spirit Plus™ Thermometers

Ideal for use in applications in which a very precise, accurate temperature measurement is required.



- Triangular anti-roll fitting
- Permanently fused markings
- Blue spirit liquid with white background glass
- Individually packaged
- Individually serialized with a traceability statement

### CERTIFICATIONS:

Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA™ Laboratory.

Specifications	
Immersion Length	76mm
Immersion Type	Partial Immersion
Length (English) Overall	11.8 in.
Length (Metric) Overall	300mm
Subdivision	2°F
Accuracy	±1.5°F

Cat. No.	Description	Price
S02004E*	Spirit Plus Thermometer	17.25/Ea

## fisherbrand Durac™ Plus™ Thermometers

Ideal for use in applications in which a very precise, accurate temperature measurement is required.



- Glass
- Triangular anti-roll fitting
- Permanently fused markings
- Blue spirit liquid with white background glass
- Individually packaged
- Individually serialized with a traceability statement

### CERTIFICATIONS:

Tested and calibrated in a triple accredited/registered ISO/IEC 17025:2005, A2LA™ Laboratory.

Cat. No.	Temperature Range (Metric)	Immersion Type	Length (Metric) Overall	Subdivision	Price
S02004A*	-10° to 110°C	Partial	200mm	2°C	21.50/Ea
S02004B*	-10° to 150°C	Partial	200mm	2°C	21.50/Ea
S02004C*	-20° to 110°C	Partial	300mm	2°C	17.25/Ea
S02004D*	-20° to 150°C	Partial	300mm	1°C	18.25/Ea
S02004G*	-10° to 260°C	Partial	300mm	2°C	31.50/Ea
S02004J*	-10° to 150°C	Total	200mm	2°C	21.50/Ea
S02004K*	-20° to 110°C	Total	300mm	1°C	18.25/Ea

## Durac™ Bi-Metallic Dial Thermometer

Features 1/2 in. NPT threaded connection and polycarbonate lens.

- External adjustment allows for simple field calibration
- For correct temperature reading, stem must be immersed at least 50mm in liquids and 100mm in gases
- Each thermometer is individually packaged with a multi-language (English, French, German, Italian, Portuguese and Spanish) Statement of Test and Calibration
- 1.7 in. dial size thermometers (except Part No 21596) do not have NPT threaded connections
- They feature a beaker clip with built in recalibration adjustment tool
- Accuracy 1%
- Temperature range: 0° to 220°F



Cat. No.	Description	Dial Size (Metric)	Length (Metric) Probe	Price
S02661	Dial Thermometer	44mm	200mm	18.25/Ea

## Durac™ Plus™ Partial Immersion Thermometer

Ideal for use in chemical laboratories, universities, scientific institutions, food and beverage processing, petrochemical laboratories, pharmaceutical industry, medical industry, manufacturers, dairies, breweries and distilleries.

- Temperature range: -1° to +201°C
- Certified to NIST standards at specific temperature points
- Supplied with a Calibration Report stating corrections to one-tenth of the smallest division
- Feature individual serial numbers
- Accuracy of 1.5°C or better and blue organic liquid against white back glass
- Tested and certified in our exclusive triple accredited/registered ISO/IEC 17025:2005
- A2LA accredited laboratory against equipment whose calibration is traceable to NIST
- Individually packaged



Cat. No.	Description	Price
S02667	Partial Immersion Thermometer	564.00/Ea

## fisherbrand Traceable™ Hi-Accuracy Refrigerator Thermometer with Min/Max Readings

Stores in memory and displays minimum/maximum readings for last 24 hours (each hour), seven days (each day) and 30 days (each day). Fisherbrand Traceable Hi-Accuracy Refrigerator Thermometers include visual LEDs and audible alarms which signal continuously even if temperature returns to non-alarm range.

- Reads °C/°F.
- High/low alarm
- Time/Date stamp key shows the exact time and date for all minimum and maximum readings
- Resolution and accuracy fulfill precise measurements for refrigerators/freezers
- Sealed bottle in GRAS (generally recognized as safe) materials is insulated from rapid temperature changes when door is opened
- Refrigerator/freezer door closes and seals tightly around micro-thin cable
- Triple display shows current °C/°F and minimum/maximum temperatures
- Alarm can be set in 0.1° increments and signals when temperature rises above or falls below set points
- Permits easy one-key calibration by user

### Specifications

- Range: -50.00° to +70.00°C (-58.00° to +158°F)
- Resolution: 0.01°
- Accuracy: ±0.1°C
- With Bottle Probe or Bullet Probe: four-wire platinum bottle, waterproof; L x dia.: 1.0 x 2.5 in. (2.54 x 6.35cm)
- Display: three lines, two alarm LEDs
- Cable: waterproof, 120 in. (3.048m)
- Case: high-impact, chemical-resistant, ABS plastic
- Size, L x W x H: 4.25 x 2.75 x 0.75 in. (10.8 x 7.0 x 1.9cm)
- Weight: 5 oz. (141.7g)

### S04564

- Four-wire platinum bottle probe ensures linear response and high accuracy across the entire range
- Sealed bottle of GRAS (generally recognized as safe) material is insulated from rapid temperature changes when door is opened



### S04565

- No bottle
- Probe is 0.31 in. dia. x 0.75 in. L (0.78 x 1.90cm)

### INCLUDES:

Two AAA batteries, Platinum RTD Stainless Steel bottle probe, cable, magnetic strips, Velcro™ tape, bench stand, plastic case

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S04564	With Bottle Probe: four-wire platinum, waterproof	134.00/Ea
S04565	With Probe (no bottle): four-wire platinum	134.00/Ea

## fisherbrand Traceable™ Digital-Bottle™ Refrigerator/Freezer Thermometers

Accurately monitor temperature in freezers, refrigerators, incubators and environmental chambers with this temperature-buffered sensor.

Provide accurate readings everywhere.

- Sensor is insulated from rapid changes when refrigerator door is opened
- Stainless-steel sensor/probe assures long product life
- Entire unit is waterproof
- **Records high/low readings:** Easy-to-read digital display shows high, low and current temperatures
- **Supplied with unique holder:** Chemical-resistant ABS plastic holder stands on a shelf or holder affixes to any wall

### Digital-Bottle eliminates mercury contamination:

- Solid-state probe eliminates the difficulty encountered with mercury thermometer contamination
- Probe is sealed in a miniature bottle filled with nontoxic glycol
- Solution is GRAS (generally recognized as safe) by the FDA
- Also available with glass-bead fill

### Specifications:

- Range: -30° to +50°C (-22° to +122°F)
- Resolution: 0.1°
- Accuracy: ±1°C (Ultra™ model: ±0.4°C at tested points)

### ORDERING INFORMATION:

Overall: 1.87 × 1 × 4.62 in. (4.8 × 2.5 × 11.7cm). Holder: 2.25 × 2.25 × 1.12 in. (5.7 × 5.7 × 2.9cm). Weight: 3.67 oz. (0.1kg).

### INCLUDES:

Chemical resistant ABS Plastic holder stand, double back tape, Velcro™ fastener and replaceable Silver Oxide battery, Stainless Steel probe sealed in nontoxic Glycol filled bottle

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Accuracy	Model	Probe Type	Price
S02274	±1°C	Standard Model	Probe sealed in liquid-filled bottle	53.50/Ea
S02276	±1°C	Standard Model	Probe sealed in glass-bead-filled bottle	53.50/Ea

## Easy-Read™ General Purpose Liquid-In-Glass Thermometers: Partial Immersion

Easy-to-read partial immersion thermometers.

- Lead-free, yellow back glass and black liquid provides easy readability and fewer reading errors
- Contains non-toxic, biodegradable, Enviro-Safe™ liquid
- EnviroKleen™ certified

### Applications:

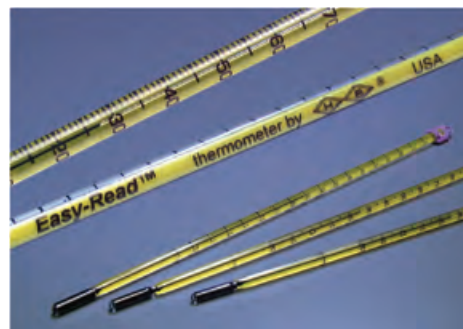
Ideal for use in chemical/petrochemical laboratories, universities, scientific institutions, food and beverage processing, pharmaceutical and medical industries, dairies, breweries and distilleries.

### ORDERING INFORMATION:

Should you require an individual Thermometer Calibration Report, factory calibrated thermometers or custom calibration services are available.

### CERTIFICATIONS:

Manufactured and tested by our USA quality team, these thermometers are traceable to NIST and include a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy and Traceability.



Cat. No.	Temperature Range	Length (Metric) Overall	Price
<i>Partial Immersion</i>			
S95775	-10° to 110°C	200mm	17.25/Ea
S95777	-10° to 150°C	200mm	17.50/Ea
S95779	20° to 230°F	200mm	21.50/Ea
S95781	20° to 300°F	200mm	23.75/Ea
S95783	-10° to 70°C	300mm	59.50/Ea
S95784	-20° to 110°C	300mm	27.75/Ea
S95786	-20° to 150°C	300mm	24.75/Ea
S95788	0° to 230°F	300mm	22.50/Ea
S95790	0° to 300°F	300mm	27.75/Ea
S95792	-10° to 260°C	350mm	28.75/Ea
S95794	20° to 500°F	350mm	27.25/Ea



## Enviro-Safe™ General Purpose Liquid-In-Glass Thermometers

Certified environmentally safe thermometers replace dangerous mercury.

- Earth friendly, EnviroKleen™ certified thermometers
- Feature green, non-toxic, biodegradable, Enviro-Safe™ liquid against lead-free, white back glass
- Meet government, education, and industry mandates to purchase “Green” products

### Applications:

Ideal for use in chemical/petrochemical laboratories, universities, scientific institutions, food and beverage processing, pharmaceutical and medical industries, dairies, breweries and distilleries.

### ORDERING INFORMATION:

Should you require an individualized Thermometer Calibration Report, factory calibrated thermometers or custom calibration services are available.

### COMPLIANCE:

Manufactured and tested by USA quality team.

### CERTIFICATIONS:

Individually serialized thermometers are traceable to NIST; include a multi-language Statement of Accuracy and Traceability.



Cat. No.	Temperature Range	Length (Metric) Overall	Price
S95796	-10° to 110°C	200mm	17.50/Ea
S95797	-10° to 110°C	200mm	17.50/Ea
S95798	-10° to 150°C	200mm	18.50/Ea
S95799	-10° to 150°C	200mm	19.50/Ea
S95800	20° to 230°F	200mm	18.75/Ea
S95804	-20° to 110°C	300mm	25.75/Ea
S95805	-20° to 110°C	300mm	16.50/Ea
S95806	-20° to 150°C	300mm	18.50/Ea

## fisherbrand Traceable™ Digital Thermometer

Versatile panel-mount module snaps into place or can be used as a stand-alone unit.

- Easy-view, four-digit LCD is 0.75 in. high
- Records minimum and maximum memory readings over any time period
- Temperature range encompasses virtually all testing requirements: -58° to +572°F and -50 to +300°C  
Resolution is 0.1° from -20° to +200°; 1° outside this range
- Accuracy is ±1°C between -20° and +100°C
- Reading updates every second

### ORDERING INFORMATION:

Dimensions: 1.5H x 2.44W x 0.5 in. D, Probe diameter 0.14 in. , Probe length (including handle): 2.75 in. , Cable length: 10

### INCLUDES:

- Stainless-steel probe with extended cable
- Individually serial-numbered
- Battery



### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S90862	Digital thermometer; Snap-in Module with Probe	31.50/Ea

## Liquid Crystal Strip Thermometer

Disposable, noninvasive method for measuring body temperature.

- Small 1.5 in. (45mm) flexible plastic strip with liquid crystal display
- Applied to skin surface, like a hand or forehead, with adhesive back
- Current temperature shows green color
- Range: 94.6° to 104.6°F (34.7° to 40.3°C )
- Division: 2°F (16.6°C)



Cat. No.	Description	Price
S01942	Liquid Crystal Strip Thermometer	4.10/Ea

## Durac™ Bluetooth Hygro-Thermometer with 30-Day Data Logging

Broadcast readings to any apple or android smartphone or device with Bluetooth 4.0 or better, utilizing the free THERMSmart app. Durac Bluetooth Hygro-Thermometer records hourly data for current seven days and then temperatures and humidity are recorded for next 23 days.

- Monitors critical environments without a physical connection
- Maximum signal distance is approximately 40m
- Alarm sounds if temperature falls outside of the set parameters
- Features all-weather housing with internal temperature sensor and an internal humidity sensor
- Data viewable as a chart or graph, or on a calendar; data from up to six data loggers can be plotted on one graph for direct comparison
- Indicators include WBGT (Wet Bulb Global Temperature), Heat, Mold and Comfort indices as well as memory full, active alarm state and low battery

### Specifications

- Hygrometer Range: 10 to 99%
- Hygrometer Accuracy:  $\pm 5\%$  between 50 to 80 RH; otherwise  $\pm 8\%$
- Thermometer Range:  $-10^{\circ}$  to  $+50^{\circ}\text{C}$  ( $14^{\circ}$  to  $122^{\circ}\text{F}$ )
- Thermometer Accuracy:  $\pm 1^{\circ}\text{C}$  ( $2^{\circ}\text{F}$ ) between  $0^{\circ}$  to  $40^{\circ}\text{C}$  ( $32^{\circ}$  to  $104^{\circ}\text{F}$ ); otherwise  $\pm 2^{\circ}\text{C}$  ( $4^{\circ}\text{F}$ )
- Thermometer Resolution:  $0.1^{\circ}$
- Dimensions (L x W x H):  $6 \times 8.5 \times 2\text{mm}$  ( $2.37 \times 3.37 \times 0.75\text{ in.}$ )

### INCLUDES:

Two AAA batteries, individually serial marked with Certificate of Compliance indicating accuracy for four temperature points and three and humidity points and multi-language (English, French, German, Italian, Portuguese and Spanish) instructions

**WARRANTY:** One year

**COMPLIANCE:** RoHS compliant

**CERTIFICATIONS:** CE marked



Cat. No.	Description	Price
S28767	Bluetooth Hygro-Thermometer with 30-Day Data Logging	117.00/Ea

## fisherbrand Water-Resistant Thermometer

Use this thermometer to measure temperature of water.



- $^{\circ}\text{C}/^{\circ}\text{F}$  exchange
- Water resistant
- Polycarbonate case
- Maximum/Minimum memory
- Stirring-purposed prove cover
- Range:  $-50^{\circ}$  to  $+200^{\circ}\text{C}$  ( $-58^{\circ}$  to  $+392^{\circ}\text{F}$ )

Cat. No.	Description	Price
S01676	Water-Resistant Thermometer	29.75/Ea

## fisherbrand Waterproof/Piercing/Drop-Proof Thermometer

Sturdy and convenient to use.



- Temp. Range:  $-50^{\circ}$  to  $+280^{\circ}\text{C}$
- Waterproof construction
- Top-reading design
- Stainless-steel probe Drop-proof from 5 ft. (1.5m)
- Large, bright and highly readable LCD display is 0.25 in. (6.3mm) high
- Reading is updated every second
- With a silver-oxide battery
- Probe dia: 0.19 in.
- Probe length: 8 in.

Cat. No.	Description	Price
S90200	Waterproof/Piercing/Drop-Proof Thermometer	29.50/Ea

## fisherbrand Traceable™ Lollipop™ Shock/Waterproof Thermometer

Offers minimum/maximum temperature readings. Fisherbrand Traceable Lollipop Shock/Waterproof Thermometer is water-resistant and is ideal for wet labs, wash-down areas, and all field applications.

- Safer replacement of hazardous mercury units
- Stainless-steel probe is resistant to most laboratory chemicals
- Shockproof in drop tests up to 5 ft.
- Memory recalls highest and lowest temperature readings which are updated every second
- Solid-state construction eliminates dangers inherent in breakable glass

- Operates without fail in all lab condition - outdoors too
- Bright and easy to view 0.25 in. high display
- Traceable to NIST for accuracy
- Temperature range:  $-50$  to  $+300^{\circ}\text{C}$  ( $-58^{\circ}$  to  $+572^{\circ}\text{F}$ )
- Resolution:  $0.1^{\circ}$  from  $-20^{\circ}$  to  $200^{\circ}$ ;  $1^{\circ}$  outside this range
- Accuracy:  $\pm 1^{\circ}\text{C}$  between 0 and  $100^{\circ}\text{C}$
- Stem diameter: 3.5mm (0.14 in.)
- Stem length: 203mm (8 in.)
- Overall length: 260mm (10.25 in.)
- Width: 44.4mm (1.75 in.)

- Depth: 12.7mm (0.5 in.)
- Weight: 0.87 oz.

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S04823	Lollipop Traceable waterproof Thermometer	32.75/Ea

## fisherbrand Traceable Waterproof Thermometer

Pocket-sized, digital, waterproof thermometers! Fisherbrand Waterproof Thermometer with shockproof case helps probe and 10 ft. cable perform accurately even when both are under water. Ideal for wet areas.

- Easy-view, 1/4 in.H LCD digits can be read at a glance
- LCD operates in environments above freezing
- Available in Fahrenheit or Celsius models

### ORDERING INFORMATION:

Range is -58 to 572°F or -50 to 300°C with a resolution of 0.1° and an accuracy of ±1°C.

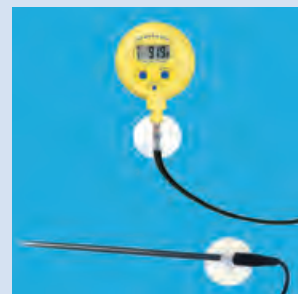
Case dimensions: 1 3/4 x 1/2 in.. Probe length: 5 in.

### INCLUDES:

Traceable certificate, 1.5V Silver Oxide battery, magnet, suction cup and Velcro™. (Suction cup can be used to mount the stainless-steel probe)

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Diameter (English) Probe	Price
S66276	0.12 in.	56.00/Ea
S66426	0.14 in.	56.00/Ea

## fisherbrand Waterproof Handheld Digital Thermometer

Wide measurement range.

- Range: -50° to 200°C/-58° to 392°F
- IP65 waterproof
- Max./Min. temperature memory
- °C/°F exchange
- Data hold
- High/Low temperature alarm setting

### Specifications:

- Battery: 1.5V size AAA or equivalent x 1 pc
- Display Size: 48 x 20.7mm
- Probe Size: 3.5 x 125mm
- Probe cord length: 100cm
- Product Size: 71 x 114 x 19mm
- Measurement range: -50° to 200°C (-58° to 392°F°)



Cat. No.	Description	Price
S01539	Waterproof Handheld Digital Thermometer	50.25/Ea

## fisherbrand Traceable™ Digital Dial Thermometers

Easy to read digital dial and mercury free. Fisherbrand Traceable Digital Dial Thermometers are ideal for cuvetts, soil, incubators and test tubes. Wide temperature span combines the ranges of more than 90 different mercury thermometers.

- LCD display 20 times more readable than eye-straining pointers or mercury levels
- Readings updated every 10 seconds
- Operate continuously for 1.5 years on a single replaceable battery
- Resolution, accuracy: 0.10, ±1°C Stem length: 4.8 in. (12cm)
- Stem diameter: 0.12 in. (3mm)
- Dial diameter: 1.5 in. (38mm)
- Weight: 1.01 oz. (31g)
- Range: -58 to 572°F and -50 to 300°C

### INCLUDES:

Protective case, Silver Oxide battery

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Temperature Range (Metric)	Temperature Range (English)	Accuracy	Description	Price
S54110F	-50° to 300°C	-58° to 572°F	±1°C/±1°F	Thermometer with centigrade and fahrenheit scale	38.75/Ea
S54110	-50° to 300°C	-58° to 572°F	±1°C	Thermometer with centigrade scale	38.75/Ea

## fisherbrand Traceable™ Platinum Freezer Thermometer

Accurately monitors temperatures in freezers, water baths, heating blocks, incubators and refrigerators.

- Ultra-thin micro-cable permits freezer doors to close on it without affecting the seal
- Fast-response, 100.00hm platinum probe is suitable for use with liquids, air/gas and frozen material

### Specifications:

- Range: -99.9° to +199.9°C
- Accuracy: ±2°C
- Resolution: 0.1°
- Thermometer size: 2.75 × 4.25 × 0.75 in. (6.9 × 10.8 × 1.9cm)
- Weight: 4.25 oz. (0.12kg)
- Probe length: 3 in. (7.6cm), dia. 0.16 in. (41mm)
- Overall stem length: 5 in. (12.7cm)
- Cable length: 9.66 ft. (2.9m)



### INCLUDES:

Adjustable probe holder, Velcro™ fasteners, Magnetic strips, Probe, High-impact, chemical-resistant ABS case, 9V alkaline battery

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S97612	Traceable Platinum Freezer Thermometer	74.25/Ea

## fisherbrand Traceable™ Kangaroo™ Thermometer

Kangaroo “pouch” stores probe cable. Fisherbrand Traceable Kangaroo Thermometer is a portable thermometer equipped with a stainless-steel probe suitable for use in acids, bases and solvents.

- Intuitive, “never read the directions” operation reduces human error
- Automatically captures and recalls minimum and maximum temperature readings over any time period
- High/low alarm is programmable in 1° increments
- Alarm sounds every minute until temperature returns to nonalarm conditions
- Hold button freezes display to record reading
- 0.75 in. digits (19mm) are readable from 20 ft. (9.6m)



### INCLUDES:

42 in. (105cm) probe cable stored in reel-compartment pouch, Built-in stand with bench footprint of 4.5 sq. in. (11.4cm), Silver-oxide battery with one year continuous use life

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S94109	Kangaroo Thermometer	38.75/Ea

## fisherbrand Traceable™ Big-Digit See-Thru™ Thermometer

Attach to the outside of a window to view outdoor temperatures. Fisherbrand Traceable Big-Digit See-Thru Thermometers have transparent display with 1.25 in.H (3.1cm) digits which show current and minimum/maximum temperatures.

- Automatic min./max. reset daily
- Temperature range: -13.0° to +158.0°F or -25.0° to +70.0°C
- Resolution: 0.1°
- Accuracy: ±1°C
- Dimensions: 3.5 × 4.25 × 0.75 in. (8.9 × 10.8 × 1.9cm)
- Weight: 8 oz. (0.2kg)

### INCLUDES:

Velcro™ mounting tape, AAA battery

Cat. No.	Description	Price
S97610	Traceable Thermometer: Farenheit	31.00/Ea



### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™; indicates traceability to standards provided by NIST™.



## fisherbrand Small Handheld Digital Thermometer

Thermometers with wide measurement range.

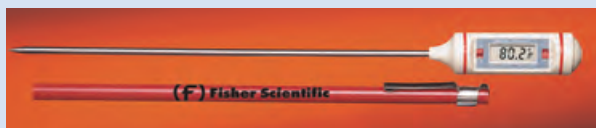
- Range: -50° to 200°C (-58° to 392°F)
- Max./Min. temperature memory
- °C/°F exchange
- Data hold
- High/Low temperature alarm setting
- Low battery indication
- With protective PVC pouch



Cat. No.	Description	Price
S01559	Small Handheld Digital Thermometer	87.00/Ea

## fisherbrand Long-Stem Digital Thermometer

Durable and safe, containing no mercury or alcohol. Fisherbrand Long-Stem Digital Thermometers are rugged and versatile digital thermometers to read soil, or stir and measure the temperature of solutions. Can also be used with incubators.



- Length: 28cm
- Accuracy: ±1°C
- Large, bright 0.2 in. (6mm) display
- Reads melting/freezing point temperatures, heat of fusion, temperatures hotter than 110°C (230°F)
- Stainless-steel probe is resistant to acids, bases and solvents
- Dual temperature range: -50° to +150°C (-58° to +302°F)
- Stem length: 8 in. (20.3cm); diameter: 3mm
- Overall length: 11 in. (28cm)

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S407993	Long stem thermometer; Length: 28cm	32.25/Ea

## fisherbrand Traceable™ Sentry™ Thermometer

Shows current, high and low temperatures simultaneously. Fisherbrand™ Traceable™ Sentry™ Thermometer instantly shows if water bath, freezer or incubator is within temperature specifications and monitors temperature of any experiment, even when you are not there.



- Sensor and 10 ft. (3m) cable may be placed under water, in a refrigerator or in a freezer
- Small cable diameter (1.5mm) allows refrigerator doors to close on it
- Simple one-button operation resets high/low memories
- A probe wire mounting bracket permits easy sensor placement
- Unit's high-impact ABS plastic case has a flip-open stand, plastic hanging hook, magnet and Velcro™ mounting tape

### Specifications

- Range: -50° to +70°C (-58° to +158°F)
- Resolution: 1°
- Accuracy: ±1°C
- Dimensions: 2.68 × 2.68 × 0.76 in. (67 × 67 × 19mm)
- Weight: 0.1 oz. (4g)

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Temperature Range	Accuracy	Price
S541112	-50° to 70°C	±1°C	55.00/Ea
S541111	-58° to 158°F	±1°F	57.00/Ea

## fisherbrand Traceable™ Hi-Accuracy 0.01° Refrigerator Thermometer

For monitoring temperatures in refrigerator and freezer simultaneously or two refrigerator locations. Fisherbrand Traceable Hi-Accuracy Refrigerator Thermometer permits user one-button self-calibration which reads to 0.01° while simultaneously monitoring temperatures in refrigerator and freezer.

Triple display simultaneously shows minimum/maximum and current temperatures where minimum/maximum monitors readings overnight, on weekends or for any time period, and displays the exact time and date.

- Temperature-buffered bottle sensor
- Two visual (LEDs) and two audio alerts when temperature rises above or falls below high/low set points
- Programmable alarms in 0.10° increments
- Miniature bottle sealing: 1 × 2.5 in. (2.5 × 6.3cm) filled with nontoxic glycol
- High-impact, chemical-resistant ABS plastic case
- Stand, Velcro™, magnetic strips, and wall mount allow placement of thermometer anywhere
- Used in water baths, heating blocks and incubators

### Specifications

- Range: -58 to +158°F and -50 to +70°C
- Resolution: 0.01°
- Accuracy: ±0.3°C
- Weight: 5 oz. (141g)

### INCLUDES:

Two AA batteries for continuous, one-year, always-on monitoring; bottle probe(s)

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



### Specifications

Diameter (English) Probe	0.19 in.
Length (English) Cable	120 in.
Length (English) Probe	0.7 in.
Length (Metric) Cable	304.8cm
Length (Metric) Probe	1.9cm
Weight (English)	5 oz.
Weight (Metric)	140g

Cat. No.	Description	Price
S98173	1 bottle probe	102.00/Ea
S98174	2 bottle probes	114.00/Ea
S98175	2 probes	90.00/Ea

## FRIO-Temp™ Glass Thermometers: Blue Organic Liquid Filled

Ideal for use in freezers, refrigerators, incubators, ovens and blood banks.

Come complete with a Statement of Accuracy traceable to NIST™ and DKD, unique serial number, and Velcro™ and magnet attachments. Simply screw thermometer with cap into bottle and attach to test sample.



- 30mL
- PTFE coating
- Glass beads
- Bottle Contents: Glass Beads
- Thermometer Fill: Blue Organic Liquid

### CERTIFICATIONS:

ISO/IEC 17025:2005, A2LA, NIST, DAKKS

Cat. No.	Temperature Range	For Use With (Application)	Price
S97427	-30° to 0°C	Freezers	43.00/Ea
S97428	20° to 130°C	Oven	51.00/Ea
S97429	50° to 200°C	Oven	99.00/Ea
S97430	-5° to 15°C	Refrigerator	47.25/Ea
S97431	20° to 60°F	Refrigerator	340.00/Cs
S97432**	-90° to 25°C	Ultralow freezer	60.25/Ea
S97433	15° to 50°C	Incubator	39.25/Ea

## FRIO-Temp™ Glass Thermometers: Enviro-Safe™ Filled

Ideal for use in freezers, refrigerators, incubators, ovens and blood banks.

Come complete with a Statement of Accuracy traceable to NIST™ and DKD, unique serial number, and Velcro™ and magnet attachments. Simply screw thermometer with cap into bottle and attach to test sample.



- 30mL
- PTFE coating

### CERTIFICATIONS:

ISO/IEC 17025:2005, A2LA, NIST, DAKKS

Cat. No.	Temperature Range (Metric)	Accuracy	For Use With (Application)	Price
S97412	-5° to 20°C	±0.5°C	Blood banks	38.00/Ea
S97414	-30° to 1°C	±0.5°C	Freezers	33.25/Ea
S97416	-5° to 15°C	±0.5°C	Refrigerator	33.25/Ea
S97420	15° to 50°C	±0.5°C	Incubator	37.50/Ea
S97424	50° to 200°C	±2°C; ±4°C above 130°C	Oven	73.25/Ea
S97425	15° to 50°C	±0.5°C	Incubator	73.75/Ea



\* California - WARNING: Cancer [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\* California - WARNING: Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*\*\* California - WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## fisherbrand Fridge/Freezer/Room Thermometer

With freezer/room temperature display.

- High/Low temperature alarm setting
- Max./Min. temperature memory
- Waterproof fridge sensor
- °C/°F exchange

**Specifications:**

- Display Size: 26 x 12mm
- Product Size: 63 x 48 x 12mm
- Sensor cord length: 1000mm
- Battery: 1.5V, size A76 or equivalent x 1 pc
- Measurement Range: -10° to +50°C/14° to 122°F (room temperature)



Cat. No.	Description	Price
S01556	Fridge/Freezer/Room Thermometer	26.50/Ea

## fisherbrand Traceable™ Platinum High-Accuracy Refrigerator/Freezer Thermometer with Probe

Displays minimum/maximum readings for last 24 hours (each hour), seven days (each day) or last 31 days (each day). Fisherbrand Traceable Platinum High-Accuracy Refrigerator/Freezer Thermometer with a platinum waterproof stainless-steel probe provides accurate readings with tip penetration of 0.3 in. and waterproof cable.

Triple display shows current °F/ °C and minimum/maximum temperatures

- Time/Date stamp key shows the exact time and date for all minimum and maximum readings
- 4-wire platinum sensor ensures linear response and high accuracy across the entire range
- Alarm is settable in 0.1° increments and signals when temperature rises above/falls below set points
- Visual LEDs and audible alarm signal continuously even if temperature returns to non-alarm range
- Permits easy one-key calibration by user
- Weight: 5 oz.
- Resolution: 0.01°
- Accuracy: ±0.1°C
- Cable length: 10-feet
- Display: easy-to-read, 3-line and 2 alarm LEDs
- Size: 2.75 x 4.25 x 0.75 in.
- Range: -148.00 to 199.99°F (-100.00 to 199.99°C)
- Case: high-impact, chemical-resistant ABS plastic

Handle Probe: Fast-response, waterproof, 4-wire platinum sensor/stainless-steel probe; Diameter 0.13 in.; Stem length: 9.0 in.; Overall length: 12 in.; 10-foot cable

Probe: 4-wire platinum; Waterproof; 0.187 in. dia and 0.75 in. length; 10-foot cable

**INCLUDES:**

Batteries, platinum RTD sensor/stainless-steel probe, magnetic strips, Velcro™ tape, bench stand

**CERTIFICATIONS:**

An individually serial-numbered Traceable Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology). NIST traceable

Cat. No.	Description	Price
S25097	Probe: 0.187 dia. x 0.74 in.L	124.00/Ea
S25096	9 in. stainless-steel handle probe	128.00/Ea



## fisherbrand Refrigerator/Freezer Thermometer

Insulated sensors protect against rapid temperature changes. Fisherbrand Refrigerator/Freezer Thermometers accurately monitor temperatures in freezers, water baths, heating blocks, incubators and refrigerators with bottle-enclosed “temperature buffered” sensor.

- Nontoxic glycol solution in bottle insulates sensor from rapid temperature changes when door is open
- Triple display shows high, low and current temperatures, and min/max feature monitors high and low readings for any time period
- Alarm feature provides an alert when temperature rises above or falls below a setpoint
- 10 ft. micro-cable permits refrigerator doors to close on it
- Velcro™ fasteners and magnetic strips are provided for mounting of both thermometer and bottle sensor
- Supplied with one-year AA battery

**CERTIFICATIONS:**

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

S66277

S66278

- Range: -50° to +70°C (-58° to +158°F)
- Resolution: 1°
- Accuracy: ±1°C
- High-resolution, high-accuracy and min/max memory
- Range: -50° to +70°C (-58° to +158°F)
- Resolution: 0.1°
- Accuracy: ±0.5°C



Cat. No.	Accuracy	Dimensions (L x W x H)	Resolution	Price
S66277	±1°C	4.25 x 2.75 in. (10.7 x 6.9cm)	1°C	59.50/Ea
S66278	±0.5°C	3.25 x 3.25 in. (8.3 x 8.2cm)	0.1°C	71.25/Ea

## fisherbrand Traceable™ Memory-Card Humidity/Temperature/Dew Point

Min/max memories and high/low alarms, plus integrated datalogger. Fisherbrand Traceable Memory-Card Humidity/Temperature/Dew Point meter captures 5.9 million readings with removable 256MB SD card. Monitors cabinets, incubators, cleanrooms, storerooms, labs, hoods and critical areas.

### Thermometer

- Covers 32° to 122.0°F (0° to 50.0°C)
- Min/max displays highest/lowest readings for any time period
- Alarm sets in 0.1 increments
- Alarm beeps and flashes a bright red LED when temperature, humidity or dew point rise above or fall below user set trip points
- Four-line display with 0.7 in. digits

### Datalogger

- Records readings from once a minute to up to once every 720 minutes on a standard SD memory card
- Captures equivalent of minute-by-minute readings over 10 years
- Supplied memory card reader plugs into any USB computer port for an instant report, with no software to install
- Text report includes date/time-of-day and all sensors readings on a single line
- Report may be sent to any spreadsheet or database

### Specifications

- Sampling Rate: Once per minute up to once per 720 minutes (user-configurable)
- Memory: 256MB memory card, but up to 4GB card can be accommodated
- Functions: min/max memory, high/low alarm and data capture
- Temperature Range: 0° to 50.0°C (32° to 122°F) with 0.1°C resolution
- Temperature Accuracy:  $\pm 1^\circ\text{C}$
- Humidity Range: 0.0 to 90.0%
- Humidity Resolution: 0.1%
- Humidity Accuracy:  $\pm 5\%$  RH at 25°C (77°F) between 20 to 85% RH;  $\pm 7\%$  RH elsewhere
- Dew Point Range: -20.0° to +50.0°C (-4° to +122°F) with 0.1° resolution
- Size L x W x H: 3.5 x 4.25 x 1.25 in. (8.9 x 10.8 x 3.2cm)
- Weight: 7 oz. (200g)

### ORDERING INFORMATION:

Operates on supplied batteries or supplied adapter. Batteries last one year with no data capture and one month with sampling rate of one per minute. If adapter receives no current, battery provides automatic backup.

### INCLUDES:

Batteries, adapter, 256MB memory card reader, magnetic mounting strips, Velcro™ wall mount, bench stand, Traceable Certificate and high-impact, chemical-resistant, ABS plastic case

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S04568	Traceable Memory-Card Humidity/Temperature/Dew Point	270.00/Ea



## fisherbrand Traceable™ Dual Thermometer with Min/Max and Time/Date

Temperature of the two different probes is displayed in both Celsius and Fahrenheit. Fisherbrand Traceable Dual Thermometer displays date and time when minimum and maximum temperatures occur.

- Measures the temperature in the freezer and another in the refrigerator
- Alarm type: audio and visual alarms programmable in 1° increments
- 10 ft. micro-cable
- Probe sealed in a miniature bottle 1 x 2.50 in. (2.5 x 6.3cm)
- Bottle filled with nontoxic glycol
- Range: -58° to +158°F and -50° to +70°C
- Resolution: 0.1°
- Accuracy:  $\pm 1^\circ\text{C}$
- Eliminates concerns about incidental contact with food or drinking water
- High-impact, chemical-resistant ABS plastic case: 3.50 x 1.75 x 1 in. (8.9 x 4.4 x 2.5cm)
- Weight: 3.66 oz. (103.7g)
- Supplied with two special bottle probes specifically for refrigerator/freezer applications
- Supplied with two 0.25D x 1.25 in.L (0.6 x 3.1cm) probes

### INCLUDES:

AAA battery for continuous, one-year always-on monitoring, flip open stand, Velcro™ and magnetic strips for mounting of both thermometer and bottle sensor, with min/max and time/date, probes

### WARRANTY:

One year manufacturing defect warranty from the date of purchase.

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



### Specifications

<b>Certifications/Compliance</b>	ISO 17025, A2LA, NIST
<b>Accuracy</b>	$\pm 1^\circ\text{C}$
<b>Dimensions (L x W x H)</b>	3.5 x 1.75 x 1 in. (8.9 x 4.4 x 2.5cm)
<b>Display</b>	Digital LCD
<b>For Use With</b>	Cold storage, chemicals, pharmaceuticals
<b>Length (English) Cable</b>	42 in.
<b>Length (Metric) Cable</b>	106.68cm
<b>Material</b>	ABS Plastic
<b>Resolution</b>	0.1°C
<b>Temperature Range (English)</b>	-58° to 158°F
<b>Temperature Range (Metric)</b>	-50° to 70°C
<b>Weight (English)</b>	3.6 oz.
<b>Weight (Metric)</b>	100g

Cat. No.	Includes	Price
S98182	Two bottle probes for refrigerator/freezer applications	67.00/Ea
S98183	Two waterproof probes	38.75/Ea



## Min-Max Thermometer

Easy-to-read and safer than glass thermometer

- Extra wide temperature range of -10°C to 200°C or 14°F to 392°F
- 4 in. stainless steel probe
- Resists acids, solvents and bases
- Selectable °C or °F readout
- Memory recall of minimum/maximum temperature

**INCLUDES:**

Stainless Steel probe, pocket clip and 1.5V button battery with 2+ year life



Cat. No.	Description	Price
S40796	Min-Max Thermometer	66.25/Ea

## fisherbrand Traceable™ Type K Thermometer

Provide larger display and wider range with faster response. Fisherbrand Traceable Type K Thermometer is a fast reading, technically advanced and easy to use thermometer.

- Wide range: Waterproof model reads from -328° to +2372°F and -200° to +1300°C with a resolution of 0.1° and 1°; Big-Digit model reads from -58° to +2000°F and -50° to +1300°C
- Meter-only accuracy: ±0.3% of the reading plus 1°C between -50° to +1000°C (-58° to +1832°F), otherwise 0.5% of the reading plus 1°C
- Switch from °F to °C at the touch of a button
- Jumbo-size, 0.625 in. (1.5cm) high digits are readable from 10 ft. away
- Back-lighting button permits reading in dark areas
- HOLD button freezes display to capture current reading
- Battery powers unit for one year of routine use
- Microprocessor updates the display 2.5 times per second
- Constructed of shock-resistant ABS plastic
- Supplied rubber “boot” for probe connector allows the unit to remain waterproof with thermocouple attached

- Recall minimum and maximum temperature readings at the touch of a button
- Unique differential feature shows the difference in temperature from a setpoint
- Uses all Type K thermocouple probes
- Waterproof to seal out moisture
- Size: 3 × 7.25 × 1.25 in. (7.6 × 18.4 × 3.2cm)

**INCLUDES:**

Carrying case, Traceable Certificate, 9V battery and fast-response, type K beaded probe with 4 ft. cable

**CERTIFICATIONS:**

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S98184	Type K Thermometer	164.00/Ea

## fisherbrand Infrared Thermometer Gun

Unique design permits “point and shoot” readings. Fisherbrand Infrared Thermometer Gun takes instant, less-than-a-second temperature readings of any surface.

- Requires no contact with surface — safely measure temperature in inaccessible or hazardous areas
- Laser-sighting beam permits aiming precisely at target surface
- Includes backlighting and data hold options
- Readings display in °C or °F
- Temperature range: -4° to +518°F and -20° to +270°C with a resolution of 0.1°
- Dimensions: 6.25 × 3 × 2.25 in. (15.9 × 7.6 × 5.7cm)

**INCLUDES:** 9V battery

**NOTE:**

Units are not individually calibrated and do not come with a Traceable Certificate.

<sup>1</sup>Accuracy is given at 18°C to 28°C (64°F to 82°F), less than 80%RH; accuracy specified is for emissivity of 0.95.



Cat. No.	Description	Price
S90202	Special purpose thermometer with Infrared gun	111.00/Ea

## Durac™ 12:1 Infrared Thermometers

With alarm, min./max. memory and individual calibration report

Measures surface temperature from a distance with advanced optics. Durac 12:1 IR Thermometers with Alarm, Min./Max. Memory and Individual Calibration Report are used in high temperature range applications when the user needs to be at a safe distance from the target being measured.

- Provides non-contact °F or °C (0.1 resolution) temperature measurement of any liquid, solid, or semi-solid
- Simple operation - turn it on, point at sample, and take reading
- 12-dot outline laser sighting
- Features max./min. memory, high/low alert, laser sighting, lock function for continuous measurement, average and differential, backlit readout, and auto shut off
- Used in many laboratory and plant environments
- Carrying case included helps for easy storage

### Specifications

- Range: -20° to +537°C (-4° to +999°F)
- Accuracy: 2.5°C from -20° to 50°C; ±(1% of the reading +1°C) from 51° to 537°C
- Resolution: 0.1°
- Emissivity: 0.95 (fixed)
- DTS: 12:1
- Dimensions (D x W x H): 16.2 x 5.6 x 19cm (6.4 x 2.2 x 7.5 in.)

### WARRANTY:

One year

### CERTIFICATIONS:

CE marked



### INCLUDES:

One 9V battery, Certificate of Calibration and individual serial number; tested and calibrated in H-B's exclusive triple accredited/registered ISO/IEC 17025:2005, A2LA accredited laboratory (Cert No. 2448.01), against equipment whose calibration is traceable to NIST.

Cat. No.	Description	Price
S28772	Range: -20° to +537°C (-4° to +999°F)	276.00/Ea

## fisherbrand Jumbo Refrigerator/Freezer Thermometer with Sealed Bottle Probe

Digital thermometers are perfect for monitoring freezers, water baths, heating blocks, incubators and refrigerators. Fisherbrand Jumbo Refrigerator/Freezer Thermometer accurately monitors temperature with enclosed "temperature-buffered" sensor.

Bottle insulates sealed sensor from rapid temperature changes when refrigerator door is opened. Thermometer fulfills all CDC thermometer and vaccine thermometer requirements.

- Easy-view, jumbo 1.5 in. (3.8cm) digits are able to be read from 30 ft. (9.1m)
- Sensor and 10 ft. (3m) cable perform accurately even when both are under water
- High-impact, chemical-resistant ABS plastic case
- Available with sealed probe or naked sensor

### Superior Design for Safe Operation

- Alarm feature provides alert when temperature rises above or falls below a set point
- Alarm is programmable in 1° increments
- 10 ft. micro-cable permits refrigerator doors to close on it
- Solid-state probes eliminate mercury contamination in refrigerators
- Sealed probe is housed in a miniature bottle filled with nontoxic glycol; solution is GRAS (generally recognized as safe) by the FDA (Food and Drug Administration)
- Eliminates concerns about incidental contact with food or drinking water

### Record Maximum/Minimum Readings

- Triple display simultaneously shows maximum, minimum and current probe temperatures plus room temperature
- Min./max. monitors high/low readings overnight, on weekends or for any time period — a significant advantage over "current reading-only" glass thermometers
- Range is -58° to +158°F and -50° to +70°C with a resolution of 0° and accuracy of ±1°C



### ORDERING INFORMATION:

Case: 3.88 x 4.38 x 0.88 in. (9.9 x 11.2 x 2.2cm). Sealed bottle probe measures 1 x 2.5 in. (2.5 x 6.4cm). Naked sensor is 0.19 in. dia. x 0.75 in. (4.8 x 19mm) long.

### INCLUDES:

Traceable™ Certificate, flip-open stand for lab bench, slot for wall mounting, one AAA alkaline battery and Velcro™ and magnetic strips to attach to any surface

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S95895	Jumbo Refrigerator/Freezer Thermometer with Sealed Bottle Probe	76.00/Ea

## fisherbrand Traceable™ Infrared Dual Lasers Thermometer with Type K Probe

With two laser sightings for accuracy.

- Simple operation — turn on, point at sample and take a reading in less than a second
- Dual lasers indicate outer diameter of the surface area being measured; white LED light illuminates the surface
- Reads both Fahrenheit and Celsius of any surface — solids, semisolids and liquids
- Dual display shows current temperature plus one of the following eight modes: emissivity value, max. memory, min. memory, differential, average (time weighted), high temperature alarm, low temperature alarm and probe temperature
- Minimum and maximum feature permits viewing highest and lowest readings at any time
- Displays the average of all readings made while taking measurements and the difference between two readings
- Audible, user-settable high and low alarms signal out of range conditions
- Display backlight permits viewing in low light conditions

### Specifications:

- Range: -60° to +550°C (-76° to +1022°F)
- Range using Type-K thermocouple jack: -64° to +1400°C (-83° to +2552°F)
- Resolution is 0.1°
- Accuracy is ±2% of the reading or 2°C, whichever is greater
- Field of view is 12:1
- Emissivity: 0.1 to 1.00 in 0.01 steps
- Dimensions: 7 × 3.75 × 2 in. (17.8 × 9.5 × 5cm)
- Weight: 9 oz. (0.2kg)

### INCLUDES:

Type-K beaded sensor and two AAA alkaline batteries

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S02273	Infrared Dual Lasers Thermometer with Type-K probe	158.00/Ea

## fisherbrand Jumbo Refrigerator/Freezer Thermometer

Digital thermometers are perfect for monitoring freezers, water baths, heating blocks, incubators and refrigerators. Fisherbrand Jumbo Refrigerator/Freezer Thermometer accurately monitors temperature with enclosed "temperature-buffered" sensor.

- Easy-view, jumbo 1.5 in. (3.8cm) digits are able to be read from 30 ft. (9.1m)
- Sensor and 10 ft. (3m) cable perform accurately even when both are under water
- High-impact, chemical-resistant ABS plastic case
- Available with sealed probe or naked sensor
- Solid-state probes eliminate mercury contamination in refrigerators
- Sealed probe is housed in a miniature bottle filled with nontoxic glycol; solution is GRAS (generally recognized as safe) by the FDA (Food and Drug Administration)
- Eliminates concerns about incidental contact with food or drinking water

### Record Maximum/Minimum Readings

- Triple display simultaneously shows maximum, minimum and current probe temperatures plus room temperature
- Min./max. monitors high/low readings overnight, on weekends or for any time period — a significant advantage over "current reading-only" glass thermometers
- Range is -58° to +158°F and -50° to +70°C with a resolution of 0° and accuracy of ±1°C

### Superior Design for Safe Operation

- Alarm feature provides alert when temperature rises above or falls below a set point
- Alarm is programmable in 1° increments
- 10 ft. micro-cable permits refrigerator doors to close on it

### ORDERING INFORMATION:

Case: 3.88 × 4.38 × 0.88 in. (9.9 × 11.2 × 2.2cm). Sealed bottle probe measures 1 × 2.5 in. (2.5 × 6.4cm). Naked sensor is 0.19 dia. × 0.75 in. (4.8 × 19mm) long.

### INCLUDES:

Traceable™ Certificate, flip-open stand for lab bench, slot for wall mounting, one AAA alkaline battery and Velcro™ and magnetic strips to attach to any surface

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S95894	Jumbo Refrigerator/Freezer Thermometer	65.00/Ea

## fisherbrand Compact Thermometer

Completely immersible thermometer.

- No sensor wire required
- Clear display

### Specifications:

- Battery: 1.5V, size A76 or equivalent x 1 pc
- Display Size: 26.5 x 13mm
- Product Size: 46 x 27 x 26mm excluding suction cup portion
- Type: Celcius thermometer
- Measurement range: 0° to 50°C



Cat. No.	Description	Price
S01548	Compact Thermometer	19.75/Ea

## fisherbrand Pen-Shaped Thermometer

Measure temperature either in Celcius or Farenheit scale or both.



- Range: -50° to +200°C
- °C/°F exchange
- Stainless steel
- Probe cover with pocket clip
- Auto power off

Cat. No.	Description	Price
S01660	Pen-Shaped Thermometer	24.00/Ea

## fisherbrand Circular Water-proof Digital Thermometer

IP67 Waterproof.

- Range: -50° to +200°C (-58° to +392°F)
- Max./Min. reading memory
- °C/°F preset
- Stirring purpose probe cover
- Pocket clip



Cat. No.	Description	Price
S01607	Circular Water-Proof Digital Thermometer	28.00/Ea

## fisherbrand Hygro-Thermometer

Jumbo display for humidity, temperature and time.

- Max./Min. humidity and temperature memory
- Ice point alert
- Memory daily reset
- Outdoor temperature display
- °C/°F exchange
- 12/24 hours format
- Alarm clock
- Alarm snooze



### Specifications

- RH Range: 20 to 99%
- Temperature Range: Indoor: 0° to 50°C (32° to 122°F); Outdoor: -50° to +70°C (-58° to +158°F)
- Alarm Duration: 12 min.
- Alarm snooze: 8 min.
- Display Size: 79 x 66mm
- Product Size: 9.8 x 11 x 2.1cm
- External Sensor Cord Length: 3000mm
- Battery: AAA 1.5V

Cat. No.	Description	Price
S01570	Hygro Thermometer	39.50/Ea

## fisherbrand Hygro-Thermometer with Jumbo Display

Jumbo display for humidity and temperature.

- Max./Min. humidity and temperature memory
- Outdoor temperature display
- °C/°F exchange
- With ice point alert (7840 only)



### Specifications

- Humidity range: 20 to 99%RH
- Temperature Range: 0° to 50°C/32° to 122°F (indoor); -50° to +70°C/-58° to +158°F (outdoor)
- Display Size: 79 x 66mm
- Product Size: 98 x 110 x 21mm
- External sensor cord length: 300cm
- Ice point alert: Outdoor reading ≤0°C/32°F (7840 only)
- Battery: 1.5V, size AAA x 1 pc

Cat. No.	Description	Price
S01572	Hygro-Thermometer with Jumbo Display	42.50/Ea



## fisherbrand Hygro-Thermometer Clock with Large Display

With jumbo display for humidity and temperature.

- Max.Min. reading memory
- °C/°F exchange
- Ice point alert (7833 only)
- Alarm snooze: 8 minutes

**Specifications:**

- Humidity Range: 20 to 99%RH
- Temperature Range: 0° to 50°C/32° to 122°F (indoor); -50° to +70°C/-58° to +158°F (outdoor)
- Time format: 12/24hours
- Alarm duration: 12 min.

- Ice point alert: outdoor reading ≤0°C/32°F (7833 only)
- Display size: 79 x 66mm
- Product size: 98 x 110 x 21mm
- Battery: 1.5V size AAA x 1 pc



Cat. No.	Description	Price
S01567	Hygro-Thermometer Clock with Ice Point Alert	51.75/Ea

## fisherbrand Traceable™ Jumbo Thermo-Humidity Meter

Fast-response, solid-state sensors show changes in relative humidity, ambient temperature, and (with probe) external temperature in under 30 seconds.

Display is updated once every second and shows temperatures in (user-settable) °F or °C. Jumbo (1.12 in.H) display can be read from 35 ft. (10.7m).

- Humidity range: 25 to 95% RH, with 1% resolution and ±2% (midrange) to ±4% (outside midrange) accuracy
- Ambient temperature range: -5° to +50°C (+23° to +122°F)
- External temperature probe (included) reads -50° to +70°C (-58° to +158°F)
- Resolution to 1° and accuracy ±1°C for both ambient and external temperature readings
- Dual-recall (minimum and maximum) memory can be displayed or cleared at the touch of a button
- Permits monitoring conditions overnight, weekends, or during any user-set time period

- External temperature sensor and cable perform accurately under water
- Unit is battery-operated, self-contained, stable, and accurate; requires no adjustment or maintenance

**ORDERING INFORMATION:**

Measures 0.75L x 3.87W x 4.25 in. H (2 x 9.8 x 10.8cm) and weighs 5.4 oz. (153g)

**INCLUDES:**

Chemical- and shock-resistant ABS plastic case, flip-open stand, wall mount, external temperature probe, 10 ft. (3m) cable, and "AAA" alkaline battery.

**COMPLIANCE:**

Meets federal requirements for CLIA specification 493.1207 for monitoring temperature and humidity.



**CERTIFICATIONS:**

A certificate is provided to indicate instrument traceability to standards provided by the National Institute of Standards and Technology (NIST™). Calibrated by an ISO™ 17025 calibration laboratory accredited by A2LA™.

Cat. No.	Description	Price
S25101	Jumbo Thermo-humidity meter	50.75/Ea

## fisherbrand Traceable™ Digital Humidity/ Temperature/Dew Point Meter

Convenient triple memories recall minimum/maximum readouts for relative humidity, dew point and temperature.

- Audible and visual LED alarm may be set to trigger at three different humidity readings (55%, 60% or 65%)
- Solid state sensors deliver response times of less than 30 seconds, °F/°C switchable
- Supplied: wall mount, batteries, Traceable™ Certificate

**Specifications**

- Humidity range: 20 to 95% range
- Humidity resolution: 0.1%
- Accuracy: ±3% mid-range, ±5% elsewhere
- Temperature range: 14° to 140°F (-10° to 60°C)
- Resolution: 0.1°
- Accuracy: ±1°C
- Dew Point: 14 to 140°F (-10 to 60°C)

**Traceable™ to NIST for Accuracy**

An individually-numbered Traceable Certificate is provided which assures accuracy from an ISO/IEC 17025 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

**CERTIFICATIONS:**

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S04709	Digital Humidity Temperature/Dew Point Meter	53.50/Ea

## Thermometer Holder

Easy-to-use, polypropylene clips hold thermometers and probes from 3.2 to 11 mm (1/8 to 7/16 in.) in diameter securely in place

- Fits onto the rims of beakers or pitchers up to 1/4 in. thick
- Autoclavable at 121°C (250°F)
- Polypropylene
- Autoclavable



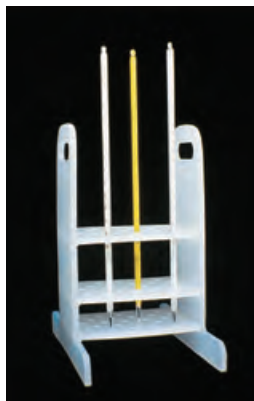
Cat. No.	Description	Price
S41251	Beaker Thermometer Holder 3 Pk	19.00/Pk

## Fisher Science Education™ Thermometer Support Rack

Handles provide a sure grip.

Designed to hold up to 25 thermometers in a vertical position.

- Hole diameters in top and middle plates are 0.31 in. (0.8cm)
- Bottom plate has 0.13 in. (0.31cm) diameter drain holes
- Dimensions: 5.84 × 8.12 × 10.2 in. (14.6 × 20.3 × 25.4cm)



### ORDERING INFORMATION:

Hole diameter in top and middle plates is 0.31 in. (0.8cm). Bottom plate has convenient drain holes of 0.12 in. diameter (0.3cm). Additional thermometer rack sizes available. To order, contact your Fisher Scientific Customer Service Representative.

Cat. No.	Description	Price
S478761	Thermometer Support Rack	47.00/Ea

## Timing

### fisherbrand Atomic Wall Clocks

Accurate to 1/10,000 of a second at all times. Fisherbrand Atomic Wall Clocks receives signal directly from the world's most accurate timekeeper, the National Institute of Standards and Technology (NIST™) atomic clock in Boulder, Colo. (accurate to one hundred billionth of a second).

- Ideal for noting the exact time an event occurred or providing a standard for other clocks
- NIST radio signal automatically sets and precisely displays time of day to the second
- Accuracy 0.0001 sec.
- Digital version also shows AM/PM, month, date and day of the week
- Automatically adjust for daylight saving time, leap year and leap seconds (Earth rotation wobble corrections)
- Automatically reset when batteries are replaced
- Supplied with AA batteries for one year of continuous operation
- Wall mount



### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Weight (English)	Weight (Metric)	Price
S66272	Analog Radio Atomic Wall Clock	1.37 oz.	0.6kg	63.75/Ea
S66273	Digital Radio Atomic Wall Clock	1.12 lb.	0.5kg	97.00/Ea



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## fisherbrand Traceable™ Giant Digits™ Radio Atomic Clock

View giant-size digits from anywhere with desk-mount. Fisherbrand Traceable Giant Digits Radio Atomic Clock automatically adjusts for daylight saving time, leap year and even the Earth's wobble in leap seconds. Maintains better than one-second accuracy for 25,000 years.

- 4.75 in. (12cm) digit height viewable from 200 ft. (61m)
- Radio signal from the NIST™ Colorado atomic clock automatically sets correct time/date
- Displays both ambient and remote F/C temperature
- Shows date, day and 12/24-hour format
- Time resolution: 1 second
- Temperature resolution: 0.1°
- Temperature range: 23 to 122°F (-5 to 50°C)
- Accuracy: 0.0001 of a second



### ORDERING INFORMATION:

Dimensions: 16.5L x 10.5W x 1.75 in. H (42 x 27 x 4.5cm). Net weight: 3.25 lb. (1.5kg).

### INCLUDES:

Batteries and outdoor radio remote

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S94840	Giant Digits Radio Atomic Clock	115.00/Ea

## fisherbrand Radio-Controlled Clock

Records date, day of the week and temperature from a direct signal from the National Institute of Standards and Technology. Fisherbrand Workstation-Traceable Radio-Controlled Clock is ideal for recording the receiving of samples, noting the exact time an event occurred and supporting documentation.

- Signal automatically adjusts for a.m./p.m., 24-hour time, day/date, daylight saving time, leap year, and leap seconds
- Backlighting permits viewing in total darkness
- Alarm volume increases until turned off
- LCD 0.5 in. (13mm) digits readable from more than 10 ft. (4.8m) One AA battery with one-year continuous-use lifespan included



### Specifications

- Timer Accuracy: 1/10,000 of a second at all times
- Range: 0° to 50°C/32° to 158°F
- Temperature Accuracy: ±1°C
- Resolution: 0.1°
- Dimensions: 2.5 x 3 x 1.5 in. (6.3 x 7.5 x 3.8cm)
- Weight: 4 oz. (0.2kg)

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S95152	Radio-Controlled Clock	29.50/Ea

## fisherbrand Key Chain Timer

Count down in minutes, stopwatch in seconds.

- Four-digit LCD display always shows time remaining in hours and minutes
- Program it in the countdown mode in minute increments from 20 hours to 1 minute
- In the stopwatch mode, it times from 1 second to 20 minutes and then repeats itself
- Dimensions: 1.5 x 0.75" with 0.33 in. H display

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S40700K	Key-Chain Timer	31.50/Ea

## fisherbrand 100-min. Count Down/Up Timer

Single-channel timer with a timing capacity of 99 minutes and 59 seconds

- Features extra-large keys, extra-large digits, and alarm
- Three-key operation makes this timer incredibly easy to learn and use
- Timer counts down from 99 minutes, 59 seconds in second increments
- 19mm digits are readable from 6m
- Alarm sounds for 30 seconds and then silences automatically
- Supplied with magnet, flip-open stand, clip, and battery



Cat. No.	Description	Price
S01614	Countdown/Up Timer	17.00/Ea

## fisherbrand Traceable™ Flashing LED Big-Digit Dual Channel Timer

Times two different activities simultaneously

- 0.63 in. digits
- Time each channel counts separately: 99 hr. 59 min. 59 sec. down to 1 sec.
- Each channel has a distinct alarm and visual indicator when zero is reached
- Green light flashes during countdown; red after zero is reached and alarm is sounding
- Alarms have three settings: high, low and muted (silent)
- Alarm may be turned off or silences automatically after 1 min.
- For repetitive timing, microcomputer chip memory permits two countdown times
- For normal timing, memory recalls last countdown time set
- Magnetic back, flip-open easel and opening for lanyard for easy placement of timer
- Accuracy: 0.01%
- Resolution: 1 sec.



### ORDERING INFORMATION:

L × H × W: 3.5 × 3 × 0.63 in. (8.9 × 7.6 × 1.6cm); 3 oz. (85g)

### INCLUDES:

Two AAA alkaline batteries; individually serial-numbered Traceable Certificate ISO 17025 calibration laboratory accredited by A2LA

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S02272	Traceable Flashing LED Big-Digit Dual Channel Timer	28.50/Ea

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## fisherbrand Traceable™ Vibrating Timer

Use this timer in wash-down areas, wet labs, manufacturing plants or field work, where hearing a buzzer is impossible. Fisherbrand™ Traceable™ Vibrating Timer features an innovative design with countdown/up, memory and stopwatch modes.

- Water resistant, steamproof
- Impressive memory; remembers most-recently-programmed setting for recurring lab experiments
- Select either vibrating or an audible alarm with the flip of a switch
- Individually numbered keys make setting time fast and easy
- Countdown and alarms on single channel
- Automatic Bounceback™ Memory for repetitive timing
- Counts up during alarming indicating elapsed time since alarming
- Counts up in stopwatch mode

**Specifications:**

- Range: 9 hours, 99 minutes, 99 seconds
- Resolution: 1 second
- Accuracy: 0.01%
- No. of Channels/Zones: 1
- Size: 8.9 x 7.6 x 2.5cm (3.5 x 3 x 1 in.)
- Weight: 78g (2.75 oz.)

**CERTIFICATIONS:**

To assure accuracy an individually serial-numbered Traceable Certificate is provided from our ISO/IEC 17025:2005 (1750.01) calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).



**INCLUDES:**

Stand, magnetic back, battery, opening for a lanyard, Traceable Certificate

Cat. No.	Description	Price
S25102	Traceable Vibrating Timer	16.25/Ea

## fisherbrand Traceable™ Multi-Colored Timer

Show your distinct style with bold colors.

- Three bright colorful supplied frames permit personalization of timer
- Four separate timing channels countdown and alarm
- Automatic Bounceback™ Memory for repetitive timing
- Counts up during alarming, indicating elapsed time since alarming
- Times up to 99 hours, 59 minutes, 59 seconds
- Settable to one second with one second resolution
- Accuracy: 0.01%
- Four channels countup in stopwatch mode
- Time-of-day clock (12/24 hour)

**INCLUDES:**

Easel bench stand, magnetic back, and battery



**CERTIFICATIONS:**

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

**ORDERING INFORMATION:**

Dimensions: 2.75 x 2.25 x 0.5 in. (7 x 5.7 x 1.3cm). Weight: 2.75 oz. (78g).

Cat. No.	Description	Price
S94843	Multi-Colored Timer	29.50/Ea

## fisherbrand Fingertip Timer

“Always at your fingertips”.

- Easy-to-use, three-button operation
- Counts down from 99 minutes, 59 seconds, in one-second increments
- Alarm may be silenced manually or turns off automatically after 30 seconds
- Memory retains last programmed time automatically for faster repeat testing

**ORDERING INFORMATION:**

Dimensions: 1.8 x 3.5 x 0.5 in. (4.6 x 8.9 x 1.3cm); weight: 1.2 oz. (34g)

**INCLUDES:**

Magnetic back with Velcro™ strips for mounting, clock, stop watch, Two-year silver-oxide battery

**CERTIFICATIONS:**

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S40709	Fingertip Timer	22.25/Ea

## fisherbrand Traceable™ Extra Large Digit Countdown Timer

1.5 in. high digits make this timer display visible from 60 ft. (18.3m). Fisherbrand Traceable Extra Large Digit Countdown Timer has reliable, three-key operation, which makes countdown settings in one-second increments easy to program.

- Timer countdowns and alarms on single channel for ease-of-use
- Counts up during alarming indicating elapsed time since alarm initiated
- Counts up in stopwatch mode
- Automatic Bounceback™ Memory for repetitive timing

### Specifications

- Resolution: Can be set to one second with one second resolution
- Accuracy: 0.01%
- L x W x H: 2.75 x 3.13 x 1 in. (6.99 x 9.74 x 2.54cm)
- Weight: 2.75 oz. (78g)

### INCLUDES:

Battery, four way holder-hanger, clip-on, easel bench stand and magnetic back

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S04562	XL Digit Countdown Timer	24.25/Ea

## fisherbrand Traceable™ Giant-Digit Timer

Eliminates squinting to observe alarm time remaining.

- 1.3 in. (3.3cm) digit height viewable from 50 ft.
- Countdown and alarms on single channel for ease-of-use
- Three-button intuitive operation eliminates reading instructions
- Automatic Bounceback™ Memory for repetitive timing
- Counts up during alarming indicating elapsed time since alarming
- Times up to 99 minutes, 59 seconds
- Settable to one second with one-second resolution
- Accuracy: 0.01%
- Counts up in stopwatch mode

### ORDERING INFORMATION:

Dimensions: 3.3 x 3 x 0.5 in. (8.5 x 7.6 x 1.3cm). Weight: 2.75 oz. (78g).

### INCLUDES:

Easel bench stand, magnetic back, and battery

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S94842	Giant-Digit Timer	20.25/Ea

## fisherbrand Continuous Alarm Timer

Alarm continues until shut off by user.

- Select either an audible alarm or bright flashing LED visual alarm
- Unit will continue to alarm (audibly or visually) until turned off by the user
- Counts down from 9999 minutes in minute increments
- Countdown resolution of one second for times under 99 minutes
- Timer counts down, alarms and then counts up
- Memory resets to the last programmed time once the alarm is silenced
- Easy-to-read display
- With stand, clip and integrated magnet

### ORDERING INFORMATION:

Dimensions: 3L x 2.25W x 0.75 in. H (7.6 x 5.7 x 1.9cm).



Cat. No.	Description	Price
S90206	Continuous Alarm Timer	19.75/Ea

## fisherbrand Traceable™ Big-Digit Timer/Stopwatch

Set four separate channels from 99 hours, 59 minutes, 59 seconds to one second. Fisherbrand™ Traceable™ Big Digit Timer/Stopwatch sounds an alarm when zero is reached and then starts counting up.

- Giant 0.75 in. (19mm) display for greater readability
- Features include count down, count up (stopwatch), time-out and time of day
- When zero is reached, alarm sounds and timer starts counting up
- All four channels may be used simultaneously in any combination of count down/count up
- Equivalent battery replacements are: RAYOVAC RW42, DURACELL D357, and EVEREADY 357.



### ORDERING INFORMATION:

Dimensions: 2.75L x 2.5W x 0.5 in. H (7.0 x 6.4 x 1.3cm).

### INCLUDES:

Silver Oxide battery

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S407992	Big-Digit Timer/Stopwatch	36.50/Ea

## fisherbrand Traceable™ Waterproof/Steamproof Timer

Single channel timer with three-key operation. Fisherbrand Traceable Waterproof/Steamproof Timer comes with multiple features such as countdown/up, memory for repetitive timing and stopwatch.

- Displays large digits for viewing from distance of up to 20 ft.
- Used in food/ beverage labs, wet labs, washdown areas, aquaculture, high humidity environments and field work
- Timing capacity: 99 minutes, 59 seconds
- Resolution: 1 second
- Accuracy: 0.01%



### INCLUDES:

Stand, removable suction-cup, battery

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S04782	Waterproof/Steamproof Timer	25.25/Ea

## fisherbrand Digital Timer

Three-button ease and big-digit visibility.

- Timer counts down from 99 minutes, 59 seconds in second increments
- Quartz-crystal accuracy to 0.01%
- Resolution: 1 second
- Automatic memory resets the display to the last programmed time — ideal for repetitive tests
- 0.75 in. (1.9cm) high digits are readable from 20 ft. away

### ORDERING INFORMATION:

L x W x H: 0.5 x 2.5 x 2.5 in. (1.3 x 6.4 x 6.4cm); weight: 2 oz. (56.7g).

### INCLUDES:

Two-year AAA battery, magnet, stand, clip and individually serial-numbered Traceable™ Certificate provided from ISO 17025 calibration laboratory accredited by A2LA™

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S90861	Digital Timer	23.25/Ea

## fisherbrand Visual Alarm Timers

Easy-to-use timers. Fisherbrand Visual Alarm Timers come with either an audible alarm or bright flashing LED visual alarm.

- 99 min. 59 sec.
- Controlled with only three buttons
- Automatic memory resets the display to the last programmed time
- “Thru-zero” feature allows counting down, alarming and then counting up
- 0.38 in. (9.6mm) digits are readable from 10 ft. (3m)
- With stand, clip and integrated magnet
- Dimensions: 3 × 2.25 × 0.75 in. (7.6 × 5.7 × 1.9cm)



### 99-Minute Model

- Counts down from 99 minutes, 59 seconds in second increments

### 9999-Minute Model

- Counts down from 9999 minutes in minute increments and has a countdown resolution of one second for times under 99 minutes

### INCLUDES:

Stand, clip, integrated magnet, two AAA batteries

Cat. No.	Description	Price
S90205A	Visual Alarm Timer	19.75/Ea

## fisherbrand 100-Hour Timer

Workhorse of the lab. Fisherbrand 100-Hour Timer is a multichannel timer which times down, times up, tells time of day and sounds alarm with uncompromising precision. All-purpose, six-channel, 100-hour timer operates on all channels simultaneously.

- Equipped with six channels: Four countdown channels, a stopwatch channel, and a time-of-the-day channel
- Unique “thru-zero” feature allows counting down, alarming, and counting up
- Contains a flip-open stand, spring fastener and lanyard hole



### Specifications

- Accuracy: ±0.01%
- Dimensions: 2.8 x 2.4 x 4 in. (7 x 6 x 1.6cm)
- Weight: 1.5 oz. (42.5g)

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S40700T	100-Hour Timer	36.50/Ea

## fisherbrand Traceable™ Timer/Stopwatches

Remarkable timers with large display.

- Scale: Basic: 99 hours 59 min. 59 sec. Advanced: 99 min. 59 sec. to 1 sec.
- Accuracy: 0.01%
- Alarms: 1 min.
- Count down from 99 minutes, 59 seconds
- Alarm can be turned off manually or automatically silenced after one minute
- Advanced model has a clock and memory

### ORDERING INFORMATION:

Dimensions: 6.4L × 5.6W × 1.3cmH; weight: 1.5 oz. (42.5g).

### INCLUDES:

Magnetic back, flip open easel stand, spring fastener slip, hole for use with a lanyard, battery, clock and memory

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S40711	Basic	36.50/Ea
S02316	Advanced	50.75/Ea



## fisherbrand Memory Timer/Clock

Handy pocket-size with clip, magnet and stand for flexibility.

- Accurate quartz crystal design
- Counts down, counts up and alarms
- Audible alarm with manual or automatic shutoff
- Memory function remembers settings and returns display to previous programmed countdown time
- Includes two-year, silver-oxide battery

### ORDERING INFORMATION:

Dimensions: 2.25L x 2.25W x 0.5 in. H (5.6 x 5.6 x 1.3cm); weight: 1.4 oz. (42.5g),

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S40711D	Memory Timer/Clock	35.00/Ea

## fisherbrand LCD Timer with Nano Counter

Displays countdown alarm time/stopwatch (count-up) time and time of day. Fisherbrand™ LCD Timer with Nano Counter includes memory feature for repetitive use, large, easy-to-read digits, clip, stand and magnet on back.

- Two timing channels, each with 23 hours, 59 minutes, 59 seconds capacity
- Clock works on AM/PM or 24-hour format
- 60-second loud alarm
- Memory feature for repetitive use
- Large, easy-to-read digits
- Clip, stand and magnet on back

### ORDERING INFORMATION:

Dimensions: 2.5L x 2W x 0.88 in. H (6.4 x 5.1 x 2.2cm).

### INCLUDES:

Two Year battery, clip, stand, magnet on back



Cat. No.	Description	Price
S90203	LCD Timer with Nano Counter	16.75/Ea

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## fisherbrand Three-Channel Alarm Timer

Run three different tests at the same time using the three-line display. Fisherbrand Three-Channel Alarm Timer is a user-friendly timer, stopwatch and time-of-day clock which fulfills most laboratory timing needs.



- Counts down and alarms separately
- Channels may be started individually or simultaneously
- Timer can concurrently signal the duration of incubating, heating and cooling
- Program each channel from one second to 99 hours, 59 minutes, 59 seconds
- When zero is reached, an alarm sounds, a message flashes on the display and the timer begins counting up
- Alarm volume adjusts for loud or quiet environments
- Four rubber feet keep the timer off a wet bench
- Battery provides one year of continuous running with nominal use
- Chemical-resistant ABS case
- Quartz-crystal accuracy: 0.001%
- Dimensions: 3.25 x 3 x 1 in. (8.3 x 7.6 x 2.5cm)
- Weight: 3 oz. (84g)

### INCLUDES:

AAA Battery, ABS Plastic case

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S40708	Three-Channel Alarm Timer	59.50/Ea

## fisherbrand Water-Resistant, Shock-Resistant Stopwatch

NIST traceability assures quality and accuracy. Fisherbrand Water-Resistant, Shock-Resistant Stopwatch is a general-purpose, quartz LCD digital stopwatch with O-ring-sealed ABS plastic case and is ideal for rough use.

- Times to 24 hours with a resolution of 0.01 of a second
- Features single-action, time-out, cumulative split and continuous timing
- Displays time-of-day in date and the day of the week

### INCLUDES:

- Instructions
- Battery
- Lanyard

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.



Cat. No.	Description	Price
S407997	Water and shock-resistant stopwatch	20.25/Ea

## fisherbrand Clip-On Stopwatch

Can hold keys or hook onto lab coat button hole.

- Stopwatch and chronograph modes
- Stopwatch reads times up to 24 hours
- Provides single-action, time-out, cumulative-split and continuous timing
- Resolution: 0.01 second
- Chronograph mode displays time of day in hours, minutes and seconds as well as AM/PM, date and day of the week
- Extra-tough ABS shockproof construction



### ORDERING INFORMATION:

Dimensions: 2L x 1.5W x 0.75 in. H (5.1 x 3.8 x 1.9cm).

### INCLUDES:

Battery

Cat. No.	Description	Price
S90207	Clip-on stopwatch	13.25/Ea

## fisherbrand Jumbo-Digit Water-Resistant Stopwatch

Jumbo 0.5 in. (1.3cm) digits are easy to read.

Rugged, O-ring-sealed and shock-resistant ABS plastic case with nonslip rubber sides.

- Times to 24 hours
- Features single-action, time-out, cumulative-split and continuous timing
- 0.01 of a second resolution for the first 30 minutes and one-second resolution thereafter
- 0.001% accuracy
- As a chronograph, the stopwatch displays time of day in hours, minutes and seconds as well as AM/PM, date and day of the week
- Time-of-day alarm
- Dimensions: 3 x 2.5 x 0.88 in. (7.6 x 6.4 x 2.2cm)



### INCLUDES:

Battery, lanyard, Velcro™ fasteners for vertical mounting; and handy clip

### CERTIFICATIONS:

Individually serial-numbered Traceable™ Certificate is provided from an ISO 17025 calibration laboratory accredited by A2LA™. It indicates traceability to standards provided by NIST™.

Cat. No.	Description	Price
S90209	Jumbo-Digit Water-resistant stopwatch	34.00/Ea

## Individual Student Timers

Enrich classroom activities in science, reading, mathematics, assessment, physical education and more.

- Handy size for student use
- Easy-to-use, three-key operation
- Easy-to-read display shows hours, minutes, seconds and hundredths of seconds
- Automatic shutoff when not in use



### INCLUDES:

Lanyard, built-in stand, belt-clip, magnet, clear storage box, lithium button battery

Cat. No.	Quantity	Price
S65329	6/Pk.	44.75/Pk
S65330	12/Pk.	83.25/Pk

## Tools

## Eisco Test Tube Holder

### Test Tube Holder

Plated spring steel wire holder with finger grip. The jaws will accept tubes up to 40mm diameter and their alignment maintained by a wire collar.

- Plated spring steel wire with finger grip
- Overall length 16cm
- Jaws accept tubes up to 40mm diameter
- Alignment maintained by wire collar



Cat. No.	Description	Price
S23648	Test Tube Holder	1.30/Ea

## Eisco Beaker Tongs

Standard beaker tongs to be used in a chemistry or biology labs.

- 1/4 in. Nickel Plated Steel with Rubber Coated Ends
- Holds beakers from 50mL to 2000mL
- 23cm long
- Jaws 12cm long w/8cm rubber coated
- Jaws closed 6cm, open to 16cm



Cat. No.	Description	Price
S13948	Beaker Tongs	4.35/Ea

## Eisco Flask Tongs

Give a firm grip to flasks of any shape from 100 to 2,000mL.



- Stainless steel
- Cork-lined rectangular jaws

Cat. No.	Description	Price
S50276A	Flask Tongs	10.50/Ea

## Stainless-Steel Scissors, Pointed

Won't rust or corrode with repeated use.

- Made of high-quality corrosion-resistant stainless steel
- Precision ground on all surfaces
- Comfortable lightweight handles
- Size 5 (5 in. long)



Cat. No.	Description	Price
S173182	Pointed Stainless-Steel Scissors	10.25/Ea

## Utility Shears

Cut through nearly anything.

- Fabricated from extremely hard stainless steel, scissors can cut through bones, tendons or any laboratory material
- Lever blade has a footplate to facilitate cutting between skin and bandages
- Length: 7.5 in. (18.8cm)



Cat. No.	Description	Price
S17898	Utility Shears	6.00/Ea

## Safety Cutter

Easily and safely cut Labmat™ liners, plastic “clamshell” packaging, shrink wrap, paper and more.

- Faster and safer than scissors or utility knives — will not cut fingers
- Ceramic blade stays rust-free and remains sharp longer than stainless-steel blades
- Blade does not need to be covered for safety
- Elongated tear-drop shape measures 2.37 × 1.18 × 0.18 in. (6 × 3 × 0.5cm)



Cat. No.	Description	Price
S04476	Safety Cutter	31.00/Pk

## United Scientific™ Hardware Assortment Kit

Kit includes a variety of hardware items commonly used in a general science, physical science, or chemistry laboratory



- Designed for use by two to four students
- Shipped in a reusable storage box

### ORDERING INFORMATION:

For complete kit contents, please call your Fisher Scientific™ Representative.

Cat. No.	Description	Price
S90312	Hardware Assortment Kit	122.00/Ea

## United Scientific™ Lab Tools Kit

An assortment of the most commonly used lab tools is available as one convenient set.

The set contains one each of:

- Test tube brush
- Spatula
- Crucible tongs
- Test tube clamp
- Lab scoop
- Forceps



Cat. No.	Description	Price
S65106	Lab Tools Kit	16.00/Ea

## United Scientific™ Chemistry Hardware Assortment Kit

Includes laboratory hardware most often used in general chemistry labs.

This set contains one each of:

- Beaker tong
- Burette clamp
- Burner tripod
- Pinchcock clamp
- Right angle clamp holder
- Clay pipe triangle
- Crucible tong
- Ring support with 4 in. (10.16cm) clamp
- Ring stand, 5 × 8 in. (12.7 × 20.32cm) base
- Test tube rack that holds six tubes
- Test tube tong
- Wire gauze, 5 × 5 in. (12.7 × 12.7cm)



Cat. No.	Description	Price
S01974A	Chemistry Hardware Assortment Kit	73.75/Ea

## Roughneck™ Heavy-Duty Flashlight

Rough and always ready.



- 8 in.
- 28 lumens
- 2D batteries
- Ring hanger

Cat. No.	Description	Price
S43919RL	Roughneck Flashlight	6.40/Ea



Tubing

### Eisco Borosilicate Glass Tubing

The sturdy 20 inch borosilicate glass tubing with 0.19in inner diameter and 0.28in outer diameter is ideal for the passage of various gases and liquids during different scientific experiments.



Cat. No.	Description	Price
S28010	Borosilicate Glass Tubing	14.00/Ea

### GSC Go Science Crazy Glass Tubing Flint

Uniform wall, low melting point

Wall thickness is 1-1.2mm. Contains one pound per pack.



Cat. No.	Diameter (Metric) Outer	Price
S24641	5mm	4.10/Ea
S24640	6mm	4.10/Ea

### GSC Go Science Crazy Latex Tubing

Latex tubing with 1.6mm thick wall.

- Length: 3.6m (11.8 ft.)
- Thickness: 1.6mm (0.062 in.)



Cat. No.	Diameter (English) Inner	Diameter (Metric) Inner	Price
S50616A	0.188 in.	4.8mm	48.75/Pk
S50617A	1/4 in.	6.35mm	584.00/Pk

### fisherbrand Pressure/Vacuum Tubing

Pure natural rubber.



- Made with dry natural rubber
- Available in variety of sizes
- Offered in Reb or Black
- Length: 12 ft.
- Thickness: 4.8mm (0.19 in.)

Cat. No.	Color	Diameter (English) Inner	Diameter (Metric) Inner	Price
S50454	Black	1/4 in.	6.4mm	30.05/Ea
S50452	Red	1/4 in.	6.4mm	37.30/Ea
S50453	Black	0.19 in.	4.8mm	32.05/Ea

### Laboratory Tubing Fittings Assortment Kit

Fittings are for the most common lab connections and compatible with tubing measuring 3.2 to 12.7mm (1/8 to 1/2 in.)

- Molded of autoclavable FDA grade polypropylene except quick disconnect fittings, which are polyethylene and not autoclavable or FDA grade
- Kit contains: 6 Straight Tubing Connectors, 7 Stepped Tubing Connectors, 5 Wye (Y) Tubing Connectors, 3 "T" shaped Tubing Connectors, 5 Quick Disconnects and 2 flow control Plastic Tubing Clamps
- Plastic organizer box has room for adding other fittings and parts

Cat. No.	Description	Price
S90143	Fittings Assortment Kit	84.00/Ea



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**How should we ship your purchase?** We will ship according to your special instructions, whenever possible. Otherwise, we will select the best shipment method, based on the nature of the material, destination, package size and weight.

**Do you need extra-quick delivery?** Overnight shipping is available for many products at an additional cost, but certain hazardous materials may be exempt from this service — please ask your Customer Service Representative when placing your order.

**Is motor freight necessary?** Some items must be shipped by motor freight (rather than by small parcel carriers) and will have different shipping costs. These items are noted in our catalog with a "Motor Freight" icon. Call your Customer Service Representative for assistance in calculating these expenses.

**Is the material hazardous?** There is a single charge of \$27.50 per order for hazardous materials, no matter how many hazardous items are on your order.

**Is your purchase live or time-sensitive?** Be sure to specify the desired delivery date for all live material orders. Some live products have minimum purchase requirements, require special handling fees or have shipping restrictions. Contact Customer Service for specific details.

### ONCE YOU RECEIVE YOUR ORDER

**Inspect your shipment!** Open and inspect your order immediately upon arrival and notify us of any problems. Report claims for damage within the seven (7) day period after delivery to allow us to remedy problems with shipping companies.

**Want to return a product?** The dedicated staff at Fisher Science Education Customer Service is committed to resolving any questions or problems you may encounter. Here are the steps to take:

- Please notify us no later than seven (7) days after delivery of any damaged or unsatisfactory shipments
- Obtain a return authorization number from Fisher Science Education Customer Service prior to returning any product.
- Provide the Fisher Science Education Confirmation Number, found in the upper left hand corner of the packing slip or invoice, or your account number and the purchase order number.

**NOTE:** Products are subject to a fifteen percent (15%) restocking charge, unless they were not supplied in accordance with your order or are defective at the time of delivery.

**Products in this catalog are intended for use by children age 13 or over.**

### LIMITED WARRANTY

Fisher Scientific Company L.L.C. ("Fisher") will make available the manufacturer's warranties, without recourse to Fisher.

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