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RICCA CHEMICAL COMPANY manufactures a wide range of high-quality solutions and standards for the Pharmaceutical industry that are prepared and tested in accordance with the U.S. Pharmacopeia and the European Pharmacopoeia.

### Source with RICCA and you can expect:

- MSDSs and CofAs which are available on our website
- Products that have certificates containing grade of raw materials used, manufacturing specifications, test method details, NIST traceability, storage recommendations, expiration dating and test equipment calibration
- Certificates of Analyses contain grade of material used, manufacturing and testing specifications, NIST traceability (where available), storage recommendations, and references to USP/EP standard methods (where available)
- Strategic Sourcing Partners that provide us with quality materials at the competitive prices to ensure our customers receive quality solutions at competitive prices.
- The ability to create custom solutions to meet your every need
- Multiple facilities nationwide.
- Industry degreed staff from inside sales to technical support

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RICCA CHEMICAL COMPANY products are manufactured to have the tightest specifications available in the industry.



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## Pharmaceutical Manufacturing

### Dissolution

710816	Simulated Gastric Fluid (without Pepsin), 0.2% (w/v) Sodium Chloride in 0.7% (v/v) Hydrochloric Acid
71097516	Simulated Intestinal Fluid (without Pancreatin), USP XXII Formulation
710916	Simulated Intestinal Fluid TS

### pH **USP <791>**

150216	Buffer, Precision Reference Standard, pH 4.000 ± 0.002 at 25°C (Color Coded Red)
151316	Buffer, Precision Reference Standard, pH 6.000 ± 0.002 at 25°C
155216	Buffer, Precision Reference Standard, pH 7.000 ± 0.002 at 25°C (Color Coded Yellow)
160216	Buffer, Precision Reference Standard, pH 10.000 ± 0.005 at 25°C
R14892001A	Buffer, pH 1.00, USP Reagent
R15832001A	Buffer, pH 8.00, USP Reagent

### Conductivity **USP <645>**

5885116	Potassium Chloride Conductivity Standard, 10 µS/cm (10 µmho/cm) at 25°C
13622604	Potassium Chloride Conductivity Standard, 100 µS/cm (100 µmho/cm) at 25°C
5888011	Potassium Chloride Conductivity Standard, 1 mS/cm (1000 µmho/cm) at 25°C
22431	Conductivity/TDS Standard, 1 mS/cm (1000 µmho/cm) at 25°C, 495 ppm as NaCl
22361	Conductivity Standard, 10 µS/cm (10 µmho/cm) at 25°C 4.7 ppm as NaCl
22411	Conductivity/TDS Standard, 500 µS/cm (500 µmho/cm) at 25°C, 240 ppm as NaCl

### Color and Achromicity **USP <631>**

R4621001500	Matching Fluid A, for USP Color Testing
4621G16	Matching Fluid G, for USP Color Testing
R4621011500	Matching Fluid K, USP - for Color and Achromicity

**Tightest specifications in the industry with minimal lot-to-lot variance.**

**USP <191>**
**Identification Tests-General aka Test**

310916	Ferric Chloride TS, 9% (w/v) Aqueous Solution
R06946120	Ammonium Sulfide TS
40001	Iodine (Iodine-Iodide), 0.100 Normal (N/10)
19816	Chlorine Water, Saturated Aqueous Solution, approximately 0.3% (w/v)
70001	Silver Nitrate, 0.100 Normal (N/10)
504516	Methyl Red TS, 0.1% (w/v) Alcoholic Solution
6791	Ammonium Oxalate TS, 3.5% (w/v) Aqueous Solution
17851	Calcium Hydroxide TS, Saturated Aqueous Solution
56221	Phenolphthalein TS/RS, 1% (w/v) Alcoholic
R0616200500	Ammonia TS 2
46616	Mercuric Chloride TS
249416	Cupric Sulfate TS, 12.5% (w/v) Aqueous Solution
696916	Ammonium Thiocyanate TS, 8% (w/v) Aqueous Solution
617516	Ammoniacal Potassium Ferricyanide TS
64001	Potassium Permanganate, 0.100 Normal (N/10), 0.0200 Molar (M/50)
61816	Ammonium Acetate TS, 10% (w/v) Aqueous Solution
60051	Potassium Chromate TS, 10% (w/v) Aqueous Solution, Chloride Free, Indicator for Argentometric Titrations
716116	Sodium Carbonate TS, 2.00 Normal Aqueous (10.6 g/100 mL)
626516	Ammonium Chloride TS, 10.5% (w/v) Aqueous Solution
622516	Ammonium Carbonate TS
752216	Sodium Phosphate, Dibasic TS, 12% (w/v) Aqueous Solution
412416	Iodine and Potassium Iodide TS 1
178316	Calcium Chloride TS, 7.5% (w/v) Aqueous Solution
546616	Oxalic Acid TS, 6.3% (w/v) Aqueous Solution
604116	Potassium Dichromate TS, 7.5% (w/v) Aqueous Solution
67416	Ammonium Molybdate TS
645816	Potassium Pyroantimonate TS
85416	Barium Chloride TS/RS, 12% (w/v) Aqueous Solution
429316	Lead Acetate TS, 9.5% (w/v) Aqueous Solution
R4788000500	Mercurous Nitrate TS
74501	Sodium Hydroxide, 1.00 Normal
627216	Ammonium Chloride-Ammonium Hydroxide TS
10251	Biuret Reagent TS
120216	Bromocresol Green TS, 0.05% (w/v) Alcoholic Solution
122116	Bromocresol Green-Methyl Red TS
131016	Bromocresol Purple TS, 0.1% (w/v) in dilute Sodium Hydroxide

<b>USP &lt;191&gt;</b>	<b>Identification Tests-General aka Test</b>
23016	Acetone, Buffered TS
R0623300120	Ammonia Cyanide TS
623516	Ammonia-Ammonium Chloride Buffer TS
68616	Ammonium Phosphate TS/RS, 13% (w/v) Aqueous Solution
698316	Ammonium Vanadate TS
89832	Barium Hydroxide TS, Saturated Aqueous Solution, pH 12.9
899516	Barium Nitrate TS
135716	Bromophenol Blue TS, 0.1% (w/v) in dilute Alcohol
137816	Bromothymol Blue TS, 0.1% (w/v) in 50% (v/v) Alcohol
1823516	Calcium Sulfate TS, Saturated Aqueous Solution
220816	Cobaltous Chloride TS, 2% (w/v) in dilute Hydrochloric Acid
225316	Congo Red TS
245016	Cresol Red TS, 0.04% (w/v) Aqueous Solution
245516	Cresol Red-Thymol Blue TS
248316	Crystal Violet (Gentian Violet) Indicator, 1% (w/v) in Glacial Acetic Acid, for Nonaqueous Titrations
248716	Cupric Acetate TS
248816	Cupric Acetate TS, Stronger
249316	Cupric Citrate TS, Alkaline
254916	Dichlorofluorescein TS, 0.1% (w/v) in Dilute Alcohol
25544	Diiodofluorescein TS, 0.5% (w/v) in Dilute Alcohol
260516	Diphenylcarbazone TS, 1% (w/v) Alcoholic Solution
266416	Edetate Disodium TS, 0.1% (w/v) in 5% (v/v) Alcohol
285816	Eosin Y TS, 0.5% (w/v) Aqueous Solution, Adsorption Indicator for Argentometric Titrations
290116	Eriochrome Black TS
290316	Eriochrome Cyanine TS
305816	Ferric Ammonium Sulfate TS, 8% (w/v) Aqueous Solution
328716	Glycerin Base TS
410216	Iodobromide TS
R4124300500	Iodine and Potassium Iodide TS 3
R4289500	Lanthanum Nitrate TS
4293816	Lead Acetate TS, Alcoholic, 2% (w/v) Alcoholic Solution
R4312000120	Lead Subacetate TS
454816	Magnesium Sulfate TS, 12% (w/v) Aqueous Solution
462916	Mercuric Acetate TS, 6% (w/v) in Glacial Acetic Acid
476516	Mercuric-Potassium Iodide TS, Mayer's Reagent
477916	Mercuric Sulfate TS, Denigès' Reagent

**USP <191>****Identification Tests-General aka Test**

486216	Methylene Blue TS, 0.05% (w/v) Alcoholic
R5045200500	Methyl Red TS 2
509016	Methyl Red-Methylene Blue TS, Alcoholic Mixed Indicator
522716	p-Naphtholbenzein TS, 0.25% (w/v) in Glacial Acetic Acid
523116	Naphthylethylenediamine Dihydrochloride TS
525532	Nessler's Reagent (Mercuric - Potassium Iodide TS, Alkaline), USP 25
527116	Neutral Red TS, 0.1% (w/v) in 50% Alcohol
5464816	Orthophenanthroline TS, 0.025 M Phenanthroline Ferrous Sulfate
572116	pH 4.7 Phenol Red TS
572316	Phenol Red TS, 0.1% (w/v) Alcoholic
577216	Phenylhydrazine - Sulfuric Acid TS
577516	Phloroglucinol TS, 2% (w/v) Alcoholic Solution
585916	Phosphotungstic Acid TS
586616	Potassium Acetate TS, 10% (w/v) Aqueous Solution
5882516	Potassium Carbonate TS, 7% (w/v) Aqueous Solution
612516	Potassium Hydroxide TS, 6.50% (w/v) Aqueous Solution
63071	Potassium Iodide TS, 16.5% (w/v) Aqueous Solution, Stabilized
654016	Potassium Sulfate TS, 1% (w/v) Aqueous Solution
661916	Resorcinol TS
710916	Simulated Intestinal Fluid TS
711316	Sodium Acetate TS, 13.6% (w/v) Aqueous Solution
719816	Sodium Chloride TS, Alkaline
72471	Sodium Hydroxide, 4% (w/v) Aqueous Solution (40 g/L)
785216	Sodium Tartrate TS, 11.5% (w/v)
785416	Sodium Tetrphenylboron TS
810416	Sulfanilic Acid TS, 0.8% (w/v) in Glacial Acetic Acid
811416	Sulfomolybdic Acid TS
83934016	Thioacetamide TS, 4% (w/v) Aqueous Solution
842216	Thymol Blue TS/RS, 0.1% (w/v) in Alcohol
846016	Thymolphthalein TS/RS, 0.1% (w/v) in Alcohol
79501	Sodium Thiosulfate, 0.100 Normal (N/10)

## Drug Discovery

### Stains

325016	Giemsa Stain, Stock, for Blood and Tissue Staining, and Staining of Malarial Parasites in Blood
93501	Wright's Stain, Rapid Formula, for Staining and General Differentiation of Blood Corpuscles
938016	Wright-Giemsa Stain Mixture
35301	Hematoxylin Stain Solution, Modified Harris Formulation (Mercury Free), Nuclear Stain for General Histology and Cytology
35351	Hematoxylin Stain Solution, Gill 1 Formulation, Regular Strength, for Staining Delicate Nuclei in Progressive Cytology
35361	Hematoxylin Stain Solution, Gill 2 Formulation, Double Strength, for More Intense Nuclei in Progressive Cytology Staining and for Staining Delicate Nuclei in Progressive Histology Staining Procedures
35371	Hematoxylin Stain Solution, Gill 3 Formulation, Triple Strength, for Frozen or Plastic Imbedded Sections, and for More Intense Nuclei in Progressive Histology Staining
55001	Papanicolaou Stain, EA-36-50 Formula, Counterstain for use with Hematoxylin Stains in the Papanicolaou Staining Procedure
55051	Papanicolaou Stain, EA-65 Formula, Counterstain for use with Hematoxylin Stains in the Papanicolaou Staining Procedure
55101	Papanicolaou Stain, OG-6 Formula, Modified, Counterstain for use with Hematoxylin Stains in the Papanicolaou Staining Procedure
55111	Papanicolaou Stain, Gill's Modified EA Formula, Acidified Cytoplasmic Counterstain for use with Hematoxylin Stains
55121	Papanicolaou Stain, Gill's Modified OG-6 Formula, Counterstain for use with Hematoxylin Stains in the Papanicolaou Staining Procedure

### Detergents

#### A surfactant or a mixture of surfactants with "cleaning properties in dilute solutions"

8698516	Triton® X-100 Wetting Agent
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## Chelators

**A substance that binds particular ions, removing them from solution, e.g., EDTA is a chelator of divalent cations such as Mg<sup>++</sup>.**

RDCS0720500	Sodium Oxalate ACS Reagent Grade
RDCE0220500	EDTA, Disodium, Dihydrate, ACS Reagent Grade

## Calibration Buffers - Precision Reference

150216	Buffer, Precision Reference Standard, pH 4.000 ± 0.002 at 25°C (Color Coded Red)
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155216	Buffer, Precision Reference Standard, pH 7.000 ± 0.002 at 25°C (Color Coded Yellow)
160216	Buffer, Precision Reference Standard, pH 10.000 ± 0.005 at 25°C
R14892001A	Buffer, pH 1.00, USP Reagent
R15832001A	Buffer, pH 8.00, USP Reagent

## Titants

74501	Sodium Hydroxide, 1.00 Normal
70001	Silver Nitrate, 0.100 Normal (N/10)
36001	Hydrochloric Acid, 0.100 Normal (N/10)
83001	Sulfuric Acid, 1.00 Normal
79501	Sodium Thiosulfate, 0.100 Normal (N/10)
6951	Ammonium Thiocyanate, 0.100 Normal (N/10)
474516	Mercuric Nitrate, 0.100 Molar (M/10), 0.200 Normal (N/5)
40001	Iodine (Iodine-Iodide), 0.100 Normal (N/10)

## Control Buffers

145032	Buffer Solution, Giordano, pH 6.4 (M/15), for Wright Staining
147416	Buffer Solution, pH 3.5 R



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