



New Grades of Bovine Serum Albumin (BSA)!

Bovine Serum Albumin (BSA) is one of the most extensively utilized proteins in life sciences research. Fisher BioReagents® offers a wide range of heat-shock and cold ethanol precipitated serum albumin products manufactured exclusively from bovine plasma. The raw material was collected from animals at USDA-registered abattoirs. During the manufacturing process, the material was subjected to a pH <5 and/or a temperature > 65°C for at least three hours, and was not commingled with any other material of animal origin.

Using our high purity BSA, researchers can formulate and customize their own specialized media for specific applications, or the BSA can be used to stabilize and enhance various enzyme systems. BSA can also be used to reduce shear in bioreactor systems and to bind reversibly a large variety of ligands.

Table 1. New BSA products from Fisher BioReagents

Part No.	Product Description	Pack Size
BP9700-100	Bovine Serum Albumin (BSA) Microbiological Grade Powder, purified by a modified cold ethanol procedure	100g
BP9703-100	Bovine Serum Albumin (BSA) Protease-free Powder, purified by a heat shock process	100g
BP9704-100	Bovine Serum Albumin (BSA) Fatty Acid-free Powder, purified by a heat shock process with additional treatments	100g
BP9705-100	Bovine Serum Albumin (BSA) Low Endotoxin Powder, purified by a heat shock process with additional treatments	100g
BP9706-100	Bovine Serum Albumin (BSA) DNase- and Protease-free Powder, purified by proprietary heat shock process	100g

Key Features

- BSA products from Fisher BioReagents are certified US origin
- Application-specific grades of BSA such as low endotoxin and protease-free grades
- All BSA products meet rigorous quality control tests including purity, solubility and heavy metal content
- Suitable for use as growth supplement in various cell culture systems such as serum-free and microbiological media

Shelf Life and Storage

60 months when stored refrigerated (+4°C) in sealed dry containers

Table 2. Selection guide for BSA products based on application

	Microbiological Grade Powder	Protease-free Powder	Fatty Acid-free Powder	Low Endotoxin Powder	DNase- and Protease-free Powder
Application	BP9700	BP9703	BP9704	BP9705	BP9706
Culture Media Animal/Insect Cells	•		•	•	
Culture Media Microbes	•				
Stabilizing/Enhancing Diluent in Enzyme Systems		•	•	•	•
Polymerase Chain Reaction (PCR)					•
Immunohematology		•	•	•	•
Serology	•		•	•	•
RIA Systems		•		•	•
Blood Banking Reagents		•	•	•	•
Binding and Transport Studies		•	•	•	•
Protein Base or Filler				•	•
Protein Standard (MW, Amino Acids, and Nitrogen)	•	•	•	•	•
ELISA (Blocks Non-Specific Binding)		•	•	•	•
As Carrier Protein for Haptens		•	•	•	•

Table 3. Product specifications for bovine serum albumin (BSA)

Specification	BP9700	BP9703	BP9704	BP9705	BP9706
Heavy Metals (as Pb)	≤ 20ppm	≤10ppm	NA	≤ 20ppm	≤ 20ppm
Loss on Drying	≤ 6.0%	≤ 5.0%	< 5.0%	< 5.0%	≤ 5.0%
Purity	≥ 95%	≥ 98%	≥ 98%	≥ 98%	≥ 98%
pH (1% in 0.15M NaCl)	6.8 - 7.2	6.8 - 7.2	6.5 - 7.5	6.5 - 7.5	6.7 - 7.3
Sulfated Ash	≤ 2.0%	≤ 2.0%	≤ 3.0%	< 2.0%	≤ 2.0%
Protease	NA	Not detected	Not detected	NA	Not detected
IgG	NA	Not detected	Not detected	NA	Not detected
Free Fatty Acid	NA	NA	< 0.02%	NA	NA
Endotoxin	NA	NA	NA	< 1.0EU/mg	NA
DNase	NA	NA	NA	NA	Not detected

Table 4. Other related Fisher BioReagents

Part No.	Product Description	Pack Size
BP1600-100	Bovine Serum Albumin (Fraction V), Heat-shock Treated	100g
BP1600-1	Bovine Serum Albumin (Fraction V), Heat-shock Treated	1kg
BP1605-100	Bovine Serum Albumin (Fraction V), Cold Ethanol Precipitated	100g
BP2819-100	Water, Molecular Biology Grade (0.1 Micron Filtered)	100mL
BP2819-1	Water, Molecular Biology Grade (0.1 Micron Filtered)	1L
BP2819-4	Water, Molecular Biology Grade (0.1 Micron Filtered)	4L
BP2819-10	Water, Molecular Biology Grade (0.1 Micron Filtered)	10L
BP2819-20	Water, Molecular Biology Grade (0.1 Micron Filtered)	20L
BP2820-100 NEW!	Water, Microbial Cell Culture Grade (Autoclaved)	100mL
BP2820-500 NEW!	Water, Microbial Cell Culture Grade (Autoclaved)	500mL
BP2820-1 NEW!	Water, Microbial Cell Culture Grade (Autoclaved)	1L

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