

New grades of Bovine Serum Albumin

Bovine Serum Albumin (BSA) is one of the most extensively utilized proteins in life sciences research. We offer 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 Fisher BioReagents™ BSA, you can formulate and customize your 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.

Key features

- Certified US origin
- Application-specific grades of BSA, such as low endotoxin and protease-free grades
- 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 1. New BSA products

Product code	Product description	Pack size
BP1600-100	Bovine Serum Albumin (BSA) reagent grade powder, produced by a proprietary heat shock process	100g
BP1600-1	Bovine Serum Albumin (BSA) reagent grade powder, produced by a proprietary heat shock process	1kg
BP1605-100	Bovine Serum Albumin (BSA) protease free powder, Cohn fraction V, produced by a proprietary modified Cohn fraction method	100g
BP8805-100	Bovine Serum Albumin (BSA) DNase- and RNase-free powder, purified by a proprietary heat shock process	100g
BP9700-100	Bovine Serum Albumin (BSA) microbiological grade powder, Cohn fraction V, produced by a proprietary modified Cohn fraction method	100g
BP9701-100	Bovine Serum Albumin (BSA) standard grade powder, Cohn fraction V, produced by a modified Cohn fraction method	100g
BP9702-100	Bovine Serum Albumin (BSA) standard grade powder, produced by a proprietary heat shock process	100g
BP9703-100	Bovine Serum Albumin (BSA) protease free powder, produced by a proprietary heat shock process	100g
BP9704-100	Bovine Serum Albumin (BSA) fatty acid free powder, produced 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

Table 2. Selection guide for BSA products based on application

Application	Product description and product code								
	Reagent grade powder	Protease free powder, Cohn fraction V	DNase- & RNase-free powder	Microbiological grade powder	Standard grade powder, Cohn fraction V	Standard grade powder	Protease-free powder	Fatty acid-free powder	Low endotoxin powder
	BP1600	BP1605	BP8805	BP9700	BP9701	BP9702	BP9703	BP9704	BP9705
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 of BSA products

Specification	Product code								
	BP1600	BP1605	BP8805	BP9700	BP9701	BP9702	BP9703	BP9704	BP9705
Heavy metals (as Pb)	≤ 10ppm	≤ 20ppm	NA	≤ 20ppm	≤ 20ppm	≤ 20ppm	≤ 10ppm	NA	≤ 20ppm
Purity	≥ 98%	≥ 98%	≥ 97%	≥ 95%	≥ 96%	≥ 96%	≥ 98%	≥ 95%	≥ 95%
pH (1% in 0.15M NaCl)	6.8 - 7.2	6.8 - 7.2	6.5 - 7.4	6.8 - 7.2	6.8 - 7.2	6.8 - 7.2	6.8 - 7.2	6.8 - 7.2	6.5 - 7.5
Sulfated ash	≤ 2.0%	≤ 2.0%	NA	≤ 2.0%	≤ 2.0%	NA	≤ 2.0%	≤ 3.0%	≤ 2.0%
Moisture	≤ 5.0%	≤ 5.0%	NA	≤ 5.0%	≤ 5.0%	≤ 5.0%	≤ 5.0%	≤ 5.0%	≤ 5.0%
Protease	NA	Not detected	Not detected	NA	NA	NA	Not detected	NA	NA
Bovine IgG	Not detected	NA	NA	NA	NA	NA	NA	NA	NA
Free fatty acid	NA	NA	NA	NA	NA	NA	NA	< 0.02%	NA
Endotoxin	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0 EU/mg
DNase	NA	NA	Not detected	NA	NA	NA	NA	NA	NA
RNase	NA	NA	Not detected	NA	NA	NA	NA	NA	NA
Bioburden	NA	NA	< 100 CFU/g	NA	NA	NA	NA	NA	NA

To place an order, contact your local Fisher Scientific office.



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