

## Bovine Serum Albumin – Cohn Fraction V, Endotoxin Low, pH – 7.0

<b>CATALOG #:</b>	7909-5	5 g
	7909-25	25 g
	7909-100	100 g

**SOURCE:** The raw material used to manufacture this lot was derived exclusively from USDA-regulated abattoirs located in the United States. The animals received ante-mortem and post-mortem inspection under a licensed veterinarian's supervision and were certified at the time of slaughter as free of infectious or contagious diseases and injurious parasites.

**PURITY:** ≥ 98% by SDS-PAGE gel

**MOL. WEIGHT:** ~ 66.43 kDa

**ENDOTOXIN LEVEL:** ≤ 0.3 EU/mg by Gel Clot

**FORM:** Light powder

### OTHER PARAMETERS:

<b>pH (1% solution):</b>	6.8 by pH meter analysis
<b>Calcium Content:</b>	< 2 mg/dL by Aesenzazo III analysis
<b>Chloride Content:</b>	< 25 mEq/L by ISE analysis
<b>Potassium Content:</b>	< 0.2 mEq/L by ISE analysis
<b>Sodium Content:</b>	< 20 mEq/L by ISE analysis
<b>Moisture Content:</b>	1.2 % by thermogravimetric analysis
<b>Microbial Content:</b>	Passed lower limit. Growth monitored on a plate at 30-35°C for 48 hrs.
<b>Mycoplasma content:</b>	Negative by E.I.A. Qualitative
<b>Viral Agents (9 CFR 113):</b>	None Detected.

**SOLUBILITY:** 50 mg/ml in water, with 15 min of manual stirring.

**STORAGE CONDITIONS:** Store at 2-8°C protected from light. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**DESCRIPTION:** BioVision's BSA is prepared by utilizing the Cohn Cold Ethanol Precipitation Process. This process is optimal for preserving the nutrient factors critical to the applications of cell culture, leptospira and microbiological growth. BSA makes up approximately 60% of all proteins in animal serum. It is commonly used in cell culture protocols, particularly when protein supplementation is necessary and the other components of serum are unwanted. It aids in stabilization of enzymes and other proteins to prevent proteolysis and denaturation, especially when the proteins are present in low concentrations. In cell culture its main role is as a carrier of small molecules. Because of its negative charge, BSA binds water, salts, fatty acids, vitamins and hormones, then carries these bound components between tissues and cells. The binding capacity also makes BSA an effective scavenger for removing toxic substances, including pyrogens, from the medium.

### APPLICATIONS/ADVANTAGES:

- Designed for a variety of bacterial and mammalian cell culture applications.
- Used as a protein supplement in serum-free media for tissue culture.
- Promotes and sustains cell growth without toxic effects.
- Goes into solution rapidly to form a clear and easily filterable solution.

### RELATED PRODUCTS:

- BSA – Cohn Fraction V, pH – 5.2 (**7904-5, 25, 100**)
- BSA – Cohn Fraction V, pH – 7.0 (**7905-5, 25, 100**)
- BSA – Cohn Fraction V, Immunoassay Grade, Protease Free, pH – 7.0 (**7906-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Free, pH – 7.0 (**7907-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Free, pH – 5.2 (**7908-5, 25, 100**)
- BSA – Cohn Fraction V, Endotoxin Low, pH – 5.2 (**7910-5, 25, 100**)
- BSA – Cohn Fraction V, Immunoassay Grade, Protease Free, pH – 5.2 (**7911-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Low, pH – 7.0 (**7912-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Low, pH – 5.2 (**7913-5, 25, 100**)
- BSA (10% in H<sub>2</sub>O) (**2119-10**)
- BSA Antibody (**5998-100**)
- AGE-BSA (**2221-10**)
- Glucose AGE-BSA (**2223-10**)
- Biotinylated BSA (Biotin-LC-BSA) (3 biotin/BSA) (**7097-5, 25**)
- Biotinylated BSA (Biotin-LC-BSA) (5 biotin/BSA) (**7098-5, 25**)
- Biotinylated BSA (Biotin-LC-BSA) (12 biotin/BSA) (**7099-5, 25**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**