

# Bovine Serum Albumin

## Fatty-Acid Free

SKU 68700 (US) | 69760 (NZ)

Protease Free and Low Endotoxin

### SCIENTIFIC ANALYSIS

ATTRIBUTE	SPECIFICATION	TYPICAL
Protein (dry basis)	≥98.0%	≥99.0%
Purity (albumin)	≥98%	100%
Solubility (4% water)	Clear–slightly hazy	Clear–slightly hazy
Moisture	≤5.0%	<2.0%
pH (10% water)	6.5 to 7.5	6.8 to 7.2
Ash	<2%	<2%
Protease	None Detected	None Detected
Endotoxin	≤1 EU/mg	≤0.1 EU/mg
Heavy Metals (Pb)	≤10 ppm	<1 ppm
IgG	None Detected	None Detected
NEFA (Fatty Acid)	<0.01%	<0.005%

Na, Cl, K, P, Ca are tested and can be reported on the Certificate of Analysis if requested.

### PRODUCT BENEFITS

- Industry leading ultra-low fatty acid levels
- High Purity, Low Interference, Low Background
- No Detectable IgG, Endotoxin, Enzyme or Protease Activity
  - Ensures assay integrity, component stability, and cell culture suitability
- Superior Solubility/Filterability for Ease of Use

### PROCESS BENEFITS

- Origin Traceability to Facilitate Regulatory Approval
- Closed-Loop Manufacturing\*
  - Eliminates the possibility of contamination and maximizes reproducibility
- Product Development and Technical Services designed for maximum responsiveness and flexibility

### QUALIFICATIONS

- Manufactured from USDA/MPI-inspected bovine plasma
- Validated for Prion (TSE) Clearance
- Manufactured according to FDA cGMPs
- USDA/APHIS/MPI Registered for Shipment to the EU
- TSE Certificate of Suitability

### APPLICATIONS

- Protease-sensitive Immunoassays such as RIA, EIA, Fluorescent and Chemiluminescent
- Protein Stabilization
- Protein Base or Filler
- Superior blocker in:
  - Immunohematology
  - Nucleic-acid based assays
  - Enzymatic assays

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## DESCRIPTION

Proliant Bovine Serum Albumin (BSA) is a high purity, lyophilized “Fraction V” powder derived from the plasma of USDA/MPI inspected healthy animals from abattoirs located in the United States and New Zealand.

Fatty acid free BSA has the lowest levels of total lipids, fatty acids, and non-esterified fatty acids of any albumin currently available commercially. It is optimal in applications where fatty acids can interfere with functionality such as hormone, cholesterol, or nucleic acid assays and is the preferred choice for protein fillers or bases so fatty acids won't also be included. Fatty acid free BSA is also highly recommended for enzymatic assays due to there being no EDTA.

## PHYSICAL CHARACTERISTICS

Proliant BSA is a highly soluble white-to-yellow with tan-to-green cast lyophilized powder. A solution of up to 30% in de-ionized water is clear-to-slightly hazy and virtually particulate-free.

## PACKAGING

Standard package sizes are 10 kg and 1 kg. Sample sizes of 100 g are available for evaluation.

PACKAGE	SIZE
Standard	10 kg
	1 kg
Sample	100 g

## STORAGE RECOMMENDATIONS

Store sealed in cool, dry environment for 5 years.

## ORDERING INFORMATION

Please order by referencing:

10 kg:	68700 (US)	1 kg:	68700-1kg (US)
	69760 (NZ)		69760-1kg (NZ)

\*Proliant's unique Closed-Loop Manufacturing means that we collect only in exclusive abattoirs with our own USDA/MPI approved proprietary collection system. No other manufacturer can claim this important closed link, as they must buy their raw material from outside sources and the spot market. What's more, from the time our product enters our tankers to the moment it is loaded into the dryers, the product is not exposed to the external environment. Once the raw material reaches our cGMP plant, the material is loaded directly into our process and manufactured through a series of closed tanks, lines, filters and separation equipment. In our plant there are no exposed filter presses or open tanks, nor is any non-food grade or noxious solvent material introduced into the process. There is also no possibility of contamination with other animal-derived products or bovine tissues in our completely dedicated facility.