

MP Biomedicals Bovine Serum Albumin Selection Guide



CHOOSE THE BEST BOVINE SERUM ALBUMIN FOR YOUR RESEARCH AND MANUFACTURING REQUIREMENTS

Bovine Serum Albumin (BSA) is a 66.5 kDa albumin protein derived from bovine plasma. It is utilized in a broad spectrum of applications including a cell culture nutrient, protein stabilizer, reducing agent, blocking agent and carrier protein, as well as in various methods such as western and southern blotting, gel electrophoresis and protein concentration determination.

With so many BSA options available in the market, it is easy to get lost or confused on the selection of suitable BSA for your specific applications. Use our BSA Selection Guide for assistance in selecting BSA for superior performance in your research and manufacturing.

Quick Guide: BSA for Different Applications

	Cell Culture	Protein Stabilization	ELISA	Carrier Protein	Other General Applications
Low Endotoxin BSA	✓			✓	
Low Fatty Acid BSA	✓	✓	✓	✓	
Low IgG BSA	✓		✓	✓	
Protease Free BSA		✓	✓	✓	✓
Microbiological Grade BSA	✓			✓	✓

ALBUMINZ™ BSA

MP Biomedicals' facility at New Zealand uses chromatographic techniques for separation and purification of BSA, as opposed to the traditional methods of cold ethanol (Cohn) fractionation and BSA stabilized heat shock. This technologically advanced process leaves the protein molecules fully intact and, in turn, leads to higher cell culture performance and cell expression in bioprocessing applications.

Our AlbumiNZ™ BSA features:

- ▶ **Higher performance and purity**
- ▶ **Lower risk:** healthy cattle in New Zealand with a negligible BSE
- ▶ **Stable supply chain:** assured and secured
- ▶ **Traceability:** completely transparent
- ▶ **Quality system:** ISO 9001 and audited to cGMP principles

AlbumiNZ™		Microbio Grade	Low Endotoxin	Low IgG	Ultra-low IgG	Protease Reduced	Low Fatty Acid
Cat. No.		02180620	02199896	02199897	02FC0076	02199898	02199899
Appearance	Off-white to light yellowish-brown powder	✓	✓	✓	✓	✓	Off-white powder
Bioburden (cfu/g)	≤100	✓	✓	✓	✓	✓	✓
Endotoxin (EU/mg)	≤1	≤3	✓	✓	✓	≤3	✓
Moisture by Karl Fischer (w/w)	≤5%	✓	✓	✓	✓	✓	✓
Mycoplasma	None detected	✓	✓	✓	✓	✓	✓
pH	6.5 – 7.5	✓	✓	✓	✓	✓	✓
Purity by SDS PAGE (w/w Total Protein)	≥97%	✓	✓	✓	✓		✓
Solubility	Dissolves in ≤ 20 mins @ 15-25 °C	✓	✓	✓	✓	✓	✓
Total Protein (anhydrous w/w)	≥95%	✓	✓	✓	✓	✓	✓
Virus 9 CFR 113.53(c)	None detected	✓	✓	✓	✓	✓	✓
BVDV	None detected		✓	✓		✓	✓
IgG (mg/g)	≤0.05			✓	≤ 4 ppm		
Protease (units/mg Protein)	≤0.0002					✓	
Fatty Acid (mg/g)	≤0.05						✓



BOVINE ALBUMIN, FRACTION V

In addition to AlbumiNZ™, MP Biomedicals offers BSA at lower cost, but still retaining many of the desired performance specifications. Albumin Fraction V is BSA manufactured from other methods, such as the Cohn purification method.

Bovine Albumin, Fraction V		Microbio Grade	Low Endotoxins	Low IgG	Protease Free	Low Fatty Acid
Cat. No.		0881004	0881068	02180561	0882045	02152401
Moisture by Karl Fischer (w/w)	≤ 5%	✓	✓	✓	✓	✓
Mycoplasma	None Detected	✓	✓	✓	✓	✓
pH	6.5-7.5	✓	✓	✓	✓	✓
Purity by SDS PAGE (w/w Total Protein)	≥ 98%	✓	✓	≥ 97%	≥ 99%	✓
Solubility	Dissolves in ≤ 20 minutes @ 15-25 °C	✓	✓	✓	✓	✓
Total Protein Concentration	≥ 95%	✓	✓	✓	≥ 99%	✓
BVDV	None Detected	✓	✓	✓	✓	✓
IgG (mg/g)	≤ 0.05			✓		
Protease (units/mg Protein)	≤ 0.0002				✓	
Fatty Acid (mg/g)	≤ 0.05					✓



MP BIOMEDICALS

NORTH AMERICA:

800.854.0530 | custserv.na@mpbio.com

Learn more at www.mpbio.com

