

Bovine Serum Albumin
Standard Grade Powder pH 7.0
Manufactured in New Zealand

Bovine Serum Albumin (BSA) is a high purity, lyophilized "Fraction V" powder derived from the plasma of MPI-inspected healthy New Zealand origin animals. The albumin is isolated from other plasma protein products and lipids by a unique proprietary, non-solvent procedure. The separation process includes a modified Cohn / heat-shock procedure designed to inactivate proteases and other potentially interfering enzymes. Further processing such as extensive membrane dialysis and filtration, minimizes analytes that can cause background interference in sensitive in vitro diagnostic (IVD) assays as well as inhibition in sensitive cell and microbial culture systems. Typical purity levels are in excess of 99%. pH Scientific's New Zealand Source Standard Grade bovine albumin product is an economical choice that is ideal for most diagnostic and research applications.

APPLICATIONS

- Protease-sensitive Immunoassays such as RIA, EIA, Fluorescent and Chemiluminescent
- Protein Standard, Diluent
- Protein, Conjugate or Enzyme Stabilizer
- Hybridization
- Selected Cell Culture applications

FEATURES / BENEFITS

- High Purity, Low Interference, Low Background
- Virtually No Detectable Protease Activity, Ensures Assay Integrity
- "Closed Loop" Manufacturing*
 - Minimizes Contamination and Maximizes Reproducibility
- Superior Solubility/Filterability for Ease of Use
- Product Development and Technical Services Designed for maximum responsiveness and Flexibility
- Manufactured from MPI inspected Bovine Plasma
- Manufactured According to FDA cGMPs
- Validated for Prion (TSE) Clearance

SCIENTIFIC ANALYSIS

	<u>Specification</u>	<u>Typical Values</u>
Protein (dry basis)	≥ 96.0%	99%
Purity (albumin)	≥ 98%	100%
Solubility (4% water)	Clear/slightly hazy	Clear/slightly hazy
Moisture	≤ 5.0%	< 2%
pH (10% water)	6.5-7.5	6.8-7.2
Ash	< 2%	<2%
Protease	≤ 0.005 Units/mg	≤ 0.005 Units/mg
Endotoxin	≤ 3 EU/mg	0.1 EU/mg
IgG	Not Detected	Not Detected

PHYSICAL CHARACTERISTICS

Bovine Serum Albumin is a highly soluble yellow to green 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

Available package sizes is 10g, 50g, 100g, 500g, and 1kg. Larger amounts available on request.

STORAGE RECOMMENDATIONS

Store sealed in a cool, dry environment for 3 years, and up to 5 years with re-qualification.

ORDERING INFORMATION

Please order by product name "Bovine Serum Albumin, New Zealand Standard Grade pH 7.0 Lyophilized Powder" and refer to SKU # PH100 or contact us on 0800 747 243/09 813 6765, or through our website www.phscientific.com

*The unique "Closed Loop" Manufacturing means that our supplier collected only in exclusive abattoirs with their own approved proprietary collection system. The material undergoes ante-and post-mortem inspection to ensure it is the highest edible grade before it is shipped to our manufacturing facility. 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 the product enters their tanks to the moment it is loaded into the dryers, the product is not exposed to the external environment. Once the raw material reaches the cGMP plant, the material is loaded directly into our process and manufactured through a series of closed tanks, lines, filters and separation equipment. In their 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.