

BSA, reagent grade

Cat# C3353 100 g

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

INTRODUCTION

Proliant Bovine Serum Albumin (BSA) is a high purity, lyophilized "Fraction V" powder derived from the plasma of USDA-inspected healthy animals from abattoirs located in the USA. 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 (including charcoal filtration), minimizes analytes including non-esterified fatty acids, 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%. Proliant's Reagent Grade, Fatty Acid Free albumin product is ideal for the most sensitive diagnostic and research applications.

APPLICATIONS

- Protease-sensitive Immunoassays such as RIA, EIA, Fluorescent and Chemiluminescent
- Protein Standard, Diluent
- Protein, Conjugate or Enzyme Stabilizer
- Hybridization, nucleic acid-based assays
- Fatty acid sensitive cell culture systems

FEATURES/ BENEFITS

- High Purity, Low Interference, Low Background
- Virtually No Detectable Protease Activity, Ensures Assay Integrity
- Origin Traceability to Facilitate Regulatory Approval
- "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 USDA-inspected Bovine Plasma
- Manufactured According to FDA cGMPs.
- Validated for Prion (TSE) Clearance
- TSE Certificate of Suitability
- USDA/APHIS Registered for Shipment to the EU

SCIENTIFIC ANALYSIS

	Specification	Typical
Protein (dry basis)	≥98.0%	> 99.0%
Purity (albumin)	≥98%	100%
Solubility (4% water)	Clear to slightly hazy	Clear to slightly hazy
Moisture	≤ 5.0%	< 2.0%
pH (10% water)	6.5 to 7.5	6.8 to 7.2
Ash	< 2%	1%
Protease	≤ 0.005 Units/mg	< 0.005 Units/mg
NEFA	< 0.01%	< 0.005%
Bovine IgG	Not Detected	Not Detected
Endotoxin	≤ 3 EU/mg	≤ 0.1 EU/mg
Heavy Metals (Pb)	≤ 10 ppm	< 1 ppm

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

PHYSICAL CHARACTERISTICS

Proliant Bovine Serum Albumin 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 size is 10 kg. Smaller sample sizes for evaluation are available.

STORAGE RECOMMENDATIONS

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