

## BSA Reagent Grade, Fatty Acid-free, Protease-free, low endotoxin

Bovine Serum Albumin (BSA) is a high purity, lyophilised Fraction V powder derived from the plasma of USDA-inspected healthy animals from slaughterhouses located in the USA. The albumin is isolated from other plasma protein products and lipids by a unique 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) minimises 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. This product is ideal for the most sensitive diagnostic and research applications

### Applications

- Protease sensitive Immunoassays, such as RIA, EIA, Fluorescent and Chemiluminescent assays
- Diluent for protein standard
- Stabiliser for protein, conjugate or enzyme applications
- Hybridisation for nucleic acid-based assays
- Suitable for selected cell culture applications

### Physical Characteristics

Analysis	Specification	Typical values
Protein (dry basis)	> 96%	99%
Solubility (4% water)	Clear/slightly hazy	Clear/slightly hazy
pH (10% water)	6.5 – 7.5	6.8 - 7.2
Purity (albumin)	>98%	100%
Moisture	<5%	<2%
Proteases	<0.005U/mg	<0.005U/mg
Ash	<2%	<2%
Bovine IgG	Not detected	Not detected
Endotoxin	<3EU/mg	0.1 EU/mg
NEFA	<0.01%	<0.005%
Heavy metals (Pb)	<10 ppm	<1 ppm

Additional results for Sodium, Chlorine, Potassium and Calcium may also be provided, if required.

## Benefits

- High purity. Low interference, low background
- Virtually no protease activity thereby ensuring assay integrity
- Fully traceable
- Closed loop manufacturing
- Superior solubility
- Manufactured from MPI inspected bovine plasma
- Manufactured according to FDA cGMP guidelines
- Validated for Prion/TSE clearance
- Health certification

## Product Information

Product Code	Product Description	Pack Size
BSA-68700-10g	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	10g
BSA-68700-25g	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	25g
BSA-68700-50g	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	50g
BSA-68700-100g	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	100g
BSA-68700-250g	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	250g
BSA-68700-500g	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	500g
BSA-68700-1kg	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	1kg
BSA-68700-10kg	BSA Reagent Grade, Fatty acid-free, protease-free, low endotoxin – US origin	10kg

## Storage and shelf life

Product should be stored in a cool, dry environment for up to three years. The product is stable for up to 5 years, following requalification.

## Additional Information

CAS number: 9048-46-8

## Support

Life Science Production is a division of Life Science Group Ltd.  
Life Science Production is [ISIA Traceability Certified](#)  
Life Science Group Ltd is an ISO 9001:2015 Certified company

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