

## 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 MPI-inspected healthy New Zealand origin animals. 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 rendering this product 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 use in Fatty Acid sensitive cell culture systems

### Physical Characteristics

Analysis	Specification	Typical values
Protein (dry basis)	> 98%	99%
Solubility (4% water)	Clear/slightly hazy	Clear/slightly hazy
pH (10% water)	6.5 – 7.5	6.8 - 7.2
Albumin purity	>98%	100%
Moisture	<5%	<2%
Proteases	<0.005U/mg	<0.005U/mg
Ash	<2%	1%
NEFA	<0.01%	<0.005%
Bovine IgG	Not detected	Not detected
Endotoxin	<3EU/mg	0.1 EU/mg
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-69104-10g	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	10g
BSA-69104-25g	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	25g
BSA-69104-50g	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	50g
BSA-69104-100g	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	100g
BSA-69104-250g	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	250g
BSA-69104-500g	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	500g
BSA-69104-1kg	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ origin	1kg
BSA-69104-10kg	BSA Reagent Grade, Fatty Acid Free, Protease free, low endotoxin - NZ 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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