

Doc. No.	Rev	Effective Date
PI112	2	20-JUN-2025

Bovine Serum Albumin / BSA

Manufacturing Grade

Synonyms: Serum albumin, ALB, BSA.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Description

Bovine Serum Albumin (BSA) is a 66.4 kDa protein containing 583 amino acids derived from the prototypical bovine serum albumin sequence. Albumin is synthesized in the liver as preproalbumin which has an N-terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin. Albumin is a soluble, monomeric protein which comprises about one-half of the blood serum protein. Albumin functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume.

Suitable for use as a biochemical, excipient (an inert substance used as a diluent or vehicle for a protein), in culture media and chromatographic applications.

- **Source** Yeast, *Pichia Pastoris*
- **Purity** $\geq 40\%$ (HPLC)
- **Endotoxin level** ≤ 15 EU/mg
- **Stabilizer** None
- **Buffer** None*
- **Physical state** Sterile filtered, slightly viscous, colorless to greenish, yellow or amber solution

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

Stability

Bovine Serum Albumin is stable at least until the lot specific expiry date if kept at 2-8°C.

Please avoid repeated freeze-thaw cycles.

Applications

- Formulation of Protein Therapeutics
- Cell Storage: Cryopreservation
- Vaccine formulation and manufacturing
- Development of mammalian cell cultures
- Infertility treatments
- Coating for medical devices

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Life Science Production

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- Drug delivery
- *In vivo* diagnostics

Product Information

Product Code	Product Description	Pack Size
RGF-008-10G	Bovine Serum Albumin / BSA	10g

Usage

For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

Support

To learn more, contact us by telephone at +44 1234 889180 or email at sales@lifesciencegroup.co.uk

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