



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

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# Certificate of Analysis and Data Sheet

## Bovine Serum Albumin

**Catalog No.**  
228-10145

**Source**  
*Bovine Serum.*

### ***Synonyms***

Serum albumin, ALB, BSA.

### ***Introduction:***

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.

### ***Description***

Contains 583 amino acid residues derived from the prototypical bovine serum albumin sequence. 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.

### ***Physical Appearance***

Lyophilized freeze dry Off-White Powder.

### ***Purity***

Greater than 97.0%.

### ***Solubility***

It is recommended to reconstitute the lyophilized BSA in sterile 18M $\Omega$ -cm H<sub>2</sub>O for 20 minutes at room temperature and at a concentration no greater than 200mg/ml. .

### ***Stability***

Lyophilized BSA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BSA should be stored at 4°C between 2-7 days and for future use below -18°C.

**Please prevent freeze-thaw cycles.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### *Applications*

Formulation of Protein Therapeutics  
Cell Storage: Cryopreservation  
Vaccine formulation and manufacturing  
Development of mammalian cell cultures  
Infertility treatments  
Coating for medical devices  
Drug delivery  
In vivo diagnostics.

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