ImmunoBioScience Corp. (IBSC) *DATA SHEET*Bovine Serum Albumin (BSA) (Ig and Protease free), Lyophilized powder

**Catalog number:** AR-6582-10 (10 grams)

AR-6582-100 (100 grams)

**Description**: Bovine serum albumin, bovine albumin, BSA, also known as "Fraction V", is a serum albumin protein that has numerous biochemical applications; dilute antibodies, as blocking agent in ELISAs(Enzyme-Linked Immunosorbent Assay), blots, and Immunohistochemistry. It is also used as a nutrient in cell and microbial culture. In restriction digests, BSA is used to stabilize some enzymes during digestion of DNA and to prevent adhesion of the enzyme to reaction tubes and other vessels. This protein does not affect other enzymes that do not need it for stabilization. BSA is used because of its stability, its lack of effect in many biochemical reactions, and its low cost since large quantities of it can be readily purified from bovine blood, a byproduct of the cattle industry.

The commercial preparations of BSA may contain **IgG** that may become an antigen for cross-reacting secondary antibodies; when using **anti-bovine IgG, anti-goat IgG, rabbit anti-horse IgG, or anti-sheep IgG**, but may occur with other antibodies that cross-react with **bovine IgG** as well. This will decrease antibody activity, loss of antibody stability, and/or increased background. Background may derive from sticky soluble immune complexes or from contaminating bovine IgG sticking non-specifically and attracting cross-reacting labeled secondary antibodies. Even small amounts of contaminating IgG may create these problems due to the use of high concentrations of BSA in many protocols. Our **IgG and protease-free BSA** should alleviate many of these problems. IgG-free BSA is supplied as a pure protein, lyophilized from distilled water. **Physical properties:** Number of residues: 607, Molecular weight: 69.323 kDa, pI in water at 25 °C: 4.7, Extinction coefficient: 0.667 ml mg-1 cm-1

**Presentation:** Lyophilized powder

**Storage:** 2-8ºC

**Intended Use**: Blocking reagent for Immunoassays and dilution of antibodies.

**Procedure:** *Dilution of antibodies*: Use 0.2-1% BSA in buffer of your choice

*As Blocking reagent:* Use *0.2*-1.0 % BSA in buffer of your choice.

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**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product is manufactured in USDA-site registered facility; collected from US origin healthy animals that undergo ante-and post-mortem inspection according to strict USDA requirements. Virus testing: Vesicular stomatitis and blue Tongue virus –Negative.

Avoid skin and eye contact with all laboratory products. Use appropriate laboratory gear, lab coat, gloves and safety glasses. Do not inhale or ingest any laboratory products. This product is not approved for administration in human or animals.

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For research use only; not for use in diagnostic procedures. FOR IN VITRO LABORATORY USE ONLY

“*In vitro* laboratory products for research”

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