

## Certificate of Analysis

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**Product Name:** Bovine Serum Albumin

**Catalog No.:** 5217

**Batch No.:** 9

CAS Number: 9048-46-8

EC Number: 232-936-2

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Appearance:** White solid  
**Solubility:** Soluble to 100 mg/ml in water  
**Storage:** Store at +4°C

### 2. ANALYTICAL DATA

**Protein content (ex Nitrogen content):** 98.2%  
**Purity (Gel electrophoresis):** 100%  
**Moisture (Loss on drying):** 0.5%  
**pH (10% solution in water):** 6.8

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

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IUPAC Name:

**Description:**

Bovine Serum Albumin (BSA) is a widely used blocking reagent for use in immunohistochemistry (IHC), immunocytochemistry (ICC), ELISAs and Western blotting. Used to block non-specific binding of antibodies. Bovine Serum Albumin can also be used as a protein concentration standard in Bradford assay for protein quantification. BSA is also used in cell culture.

**Physical and Chemical Properties:**

Physical Appearance: White solid

**Storage:** Store at +4°C

**Solubility & Usage Info:**

Soluble to 100 mg/ml in water

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

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