

## BSA (Bovine Serum Albumin; 10 mg/ml)

### Description:

Bovine Serum Albumin (BSA) is supplied with some restriction enzymes to prevent adhesion of the enzyme to reaction tubes and pipette surfaces.

BSA also stabilizes some proteins during incubation.

Solution from lyophilized powder , fraction V

Molecular Weight: 68 KD

This product contains >99% Albumin, it is free from proteases, fatty acids and contains extremely low heavy metal ions.

It is also free from DNA ,RNA and nonspecific endonuclease,exonuclease and RNase activity as determined after incubation with appropriate DNA and analyzed by gel electrophoresis .

**Concentration:** 10 mg / ml

**Storage Buffer:** 20 mM KPO<sub>4</sub>, 50 mM NaCl, 0.1 mM EDTA, 5% Glycerol, pH 7.0 at 25°C

**Storage condition:** -20°C

**Shipment:** with blue ice

### 16-Hour Incubation:

A 50 µl reaction containing 1 µg of FX174 DNA (HaeIII digested) and 50 µg of BSA incubated for 16 hours at 37°C resulted in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

### RNase Assay:

Incubation of 50 µg of BSA with 1 µg RNA Ladder (NEB #N0362) for 1 hour at 37°C in 50 µl assay buffer [70 mM Tris-HCl, 10 mM MgCl<sub>2</sub>, 5 mM DTT, (pH 7.6, 25°C)] followed by agarose gel electrophoresis resulted in no detectable RNA degradation.

### Endonuclease Assay:

Incubation of 50 µg of BSA with 1 µg FX174 RF I DNA for 4 hours at 37°C in 50 µl of 1X NEB-Buffer 2 resulted in < 10% conversion to RF II.

### Ordering information:

Cat.-no	Description	Amount
209-005	BSA Bovine Serum Albumin	4 x 1,5 ml

*.. a good decision ..*

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Contact Phone +49-(0)-621- 5720 864 Fax: +49-(0)-621-5724 462

E-Mail: <mailto:info@geneon.net> WEB: <http://www.tag-dna.com/> Version: 25.10.2009 AS

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