

Bovine Albumin Solutions

Products Description

High quality albumin in solution at 30% for immunotechnologies:

Convenient: no dispendious weighing!, no dissolution step, just dilute in your usual buffer!

Gain time and reproducibility

Stable

| | | | |
|--|---|---|---|
| BSA Biotech, 30% solution | UP900100, 50ml UP900101, 500ml UP900102, 1L | BSA Biotech IH, 30% solution | UP900130, 50ml UP900131, 500ml UP900132, 1L |
| Suits most biotechnologies, notably saturation for immunodetections (ELISA, Blotting, IHC,...) | Storage: +4° (L) | Suits immunohematology applications (cell aggregation based assays/combs, RBCs agglutination), FCM analysis | Storage: +4° (L) |
| French origin | | French origin | |
| Also available as powder state | UPQ8417 | Also available as a 22% solution | UP900140, 50ml |

Technical information

Bovine Serum Albumin (BSA) is a protein widely used in research and industry, in a variety of applications requiring sometime very precise characteristics, as absence of certain substances, material source origin. The BSA characteristics are driven largely by the preparation method, i.e. Heat Shock Isolation versus Cold Ethanol Fractionation. To suits the different applications needs, Uptima prepares several grades of BSA, with suitable methods and quality control for specific characteristics (see related products).

Applications

Uptima BSA solutions are Biotech grade high quality products dedicated to many applications including

- Immunodetection
- Biochemistry
- Manufacturing

BSA Solutions 30% are recommended for **convenience of use, gain of time, and reproducibility** over powder albumins, for most Biotechnology applications. The preparation of BSA solutions is much easier, by simple pipetting the 30% solution and dilution in suitable buffer. This solves many concerns encountered with powders, such as long or difficult dissolution, incomplete and variable solubilisation resulting in inaccurate and inconsistent results, foaming and bubbling responsible of artifacts or biomolecules alterations,...

BSA Solution 30% #UP90010- is **ideal for most Immunodetections**, used as a blocking agent (for microplates, blotting membranes, IHC/IHF sections) and saturating agent in (antibodies) probes dilution and washing buffers. It suits most others techniques, however for proteomics, genomics or cell biology applications one may prefer other BSA grades for reproducible experiments in demanding applications, i.e. Biotech grade BSA #UP101595 (DNase, RNase, Protease free).

BSA Solution 30% #UP90013- is **designed for ImmunoHematology and cell aggregation experiments, and cell analysis in FCM**, were cell suspension are critical: an additive allows for improved movement of cells, reducing interactions with other cells and container surfaces.

Origin - Sanitary

This BSA is made from bovine raw materials of **French origin**. The product is **safe**: it does not contain and does not stem from specified risky material defined by the European Commission's decision 97/534/CE. Plasma was collected from

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FT-900101

bovines in slaughterhouse inspected by veterinary services before and after death. A veterinary and sanitary certificate is available on inquire.

Stability - Solubility

This BSA solution 30% is stable at least 2 years when stored properly (+4°C). Once opened, keep it back at +4°C (be aware the stability may be altered and the risk of contamination increased with each use) or at -20°C for longer periods. Bovine serum Albumin is readily soluble in dilution of the 30% solution occurs readily with distilled water or saline buffers. Avoid vigorous stirring or agitation, as foaming will result and may affect BSA stability.

Quality - Specifications

Biotech 30% solutions are controlled primarily for **protein content**, purity (>95%, and typically ca 97%), **pH** (10% solution is 6,5 – 7,4) and **absence of mesophilic germs**. A certificate of analysis is available on inquire. Item #UP90013 contains an additive, **octanoic acid** 10-15g/L, but no preservatives.
Product for R&D use only.

Please ask Uptima- Interchim for any question.

Other Albumins - Selection Guide

| | Albumin from Bovine Serum (BSA) | | | | | | | | Ovalbumin |
|----------------------------------|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Grade | Standard | Biotech | Molec.Biol. | HighestPurity | LowEndotoxin | LowSalt | Biotech | ImmunoH | Biotech |
| Form | powder | powder | powder | powder | powder | powder | Solution 30% | Solution 30% | powder |
| cat.# | UPQ8417 | UP10159 | UP28391 | UP90938 | UPC7114 | UP32890 | UP90010 | UP90013 | UPR5851 |
| Purity | >95% (98%) | >95% (98%) | 98% | 99% | >95% (98%) | 98% | 95-97% | 95-97% | |
| DNase/RNase | | No | No | No | | | | | |
| Protease | | No | | No | | | | | |
| Endotoxin | | | | | <1 EU/mg | | | | |
| Fatty acids | | | | | Lowest | | | octanoic acid | |
| Application | | | | | | | | | |
| Saturation (Elisa, Blot, IHC...) | +++ | ++ | + | + | + | + | +++ | + | ++ |
| Dilution of immunoreagents | ++ | +++ | + | ++ | + | + | + | - | ++ |
| Immunologicals stabilization | + | +++ | ++ | ++ | ++ | + | ++ | + | ++ |
| Agglutination assays | ++ | ++ | + | - | ++ | + | + | +++ | |
| Carriers (1) | ++ | ++ | + | +++ | + | + | + | - | ++ |
| Standards (2) | - | + | + | +++ | + | + | + | | |
| Genomicals stabilization | +/- | ++ | +++ | + | + | + | + | - | |
| gene amplication | +/- | + | +++ | ++ | + | + | + | - | |
| Cell culture media | +/- | + | + | + | +++ | + | - | + | |

Legend: +++ highly recommended ; ++ suits ; +: may suit / not recommended ; -: do not suit

(1)For the preparation of hapten-carrier conjugates, see also Uptima MaxiBind BSA, OVA and B.LG.

(2)For BSA protein standard, see also BSA protein standard (2mg/ml) UP36859A.

Ask also for other saturating agents for immunoassays ([page A352+](#)), i.e.

-[SeaBlock](#) to reduce background due mammalian crossreactivities)

-BSA containing buffers (PBS, TBS)

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic use. Uptima is not liable for any damage resulting from handling or contact with this product.

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