

## Adult Bovine Serum

### Product Description

Adult Bovine Serum is defined as the liquid fraction of clotted blood derived from healthy, slaughtered cattle 12 months of age or older deemed to be fit for human consumption by ante- and/or post-mortem inspection. It is collected in abattoirs inspected by the competent authority of the country of origin. There are no deletions or additions (including preservatives) allowed.

### Country of Origin

The country of origin for Adult Bovine Serum refers to country in which the raw blood was collected.

### Specifications

Quality Assurance testing precedes the release of a batch for sale. Full batch documentation can be provided including Certificates of Analysis showing country of origin, and batch filtration records.

<b>Country of Origin</b>	Adult Bovine Serum is from a single origin. The country of origin for each batch will be stated on the COA.
<b>Filtration</b>	<b>Adult Bovine Serum</b> is thawed, pooled and subjected to filtration (usually through a series of membrane filters culminating in a sterile 0.2 micron filter) before being aseptically dispensed into final packaging, labelling and placing on the market. No further processes, additions or deletions are allowed. Aseptically processed Adult Bovine Serum is stored frozen. It may be further treated using <b>gamma irradiation</b> or <b>heat inactivation</b> and additionally labelled to indicate the treatment method used.
<b>Documentation</b>	Full traceability for serum production is demonstrated through the stringent records maintained by LSG at their facility. These records are maintained in both hard copy and electronic copy. These records are audited through the ISIA Traceability Audit program

*Complete results are reported on the Certificate of Analysis supplied with each batch.*

### Product Information

<b>Produce Code</b>	<b>Species</b>	<b>Pack Size</b>
S-002A-US	Adult Bovine Serum - Aseptically Filled - US	500mL
S-002B-US	Adult Bovine Serum - Aseptically Filled - US	100mL
S-002A-EU	Adult Bovine Serum - Aseptically Filled - EU	500mL
S-002B-EU	Adult Bovine Serum - Aseptically Filled - EU	100mL
S-002B-HI-US	Adult Bovine Serum - Aseptically Filled - Heat Inactivated - US	100mL

S-002B-HI-EU	Adult Bovine Serum - Aseptically Filled - Heat Inactivated - EU	100mL
S-002A-HI-EU	Adult Bovine Serum - Aseptically Filled - Heat Inactivated - EU	500mL
S-002A-HI-GI-EU	Adult Bovine Serum - Aseptically Filled - Heat Inactivated - Gamma Irradiated - EU	500mL

## Additional Treatments and Testing

Adult Bovine Serum is also available heat inactivated and gamma irradiated.

**Heat Inactivation:** Sterile filtered serum is heated to 56°C for 30 minutes with continuous agitation. This process will inactivate various components of the serum including complement factors which can interfere with certain immunoassays. However, the routine treatment of serum is not desirable for all applications, so it is recommended to test the benefit of heat inactivation prior to having a batch treated in this way. Heat inactivation can increase the presence of precipitates and may also impede the growth enhancing properties of the FBS.

**Gamma Irradiation:** Can be used as part of the sterilisation process. After the serum has been sterile filtered, it is bottled and then exposed to 2.5-3.5 mRads (25-35 kGy) to guarantee freedom from micro-organisms. Some bovine viral species are resistant to gamma-irradiation, such as parvovirus. As the gamma irradiation is carried out in the final packaging vessels, it will cause both glass and PETG bottles to darken in colour. It can also impair the efficiency of the serum and reduce shelf life.

## Shelf Life

Serum has a shelf life of 5 years from the date of manufacture, provided it is stored appropriately. We would recommend enquiring about the shelf life of each available batch if it is important to have a long shelf life following purchase.

## Storage & Handling

Recommended storage is -20°C or below.

Protect serum from exposure to light.

It is recommended to avoid freeze-thaw cycles as this can lead to a deterioration in serum qualities. Ideally, material should be thawed under controlled conditions and re-aliquoted into smaller volumes before re-freezing. It is not recommended to store or refreeze partially used serum as degradation is rapid if microbial contamination occurs. All biological material should be handled as potentially infectious. It is essential that universal precautions should be employed when handling serum.

## Shipping

Product ships frozen on dry ice.

## Support

Life Science Production is a division of Life Science Group Ltd.

Life Science Production is [ISIA Traceability Certified](#)

Life Science Group Ltd is an ISO 9001:2015 Certified company

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