

## Product Information

### Adult Bovine Serum

Cat. No. ABS-1B (100 ml), ABS-1A (500 ml), ABS-1D (1000 ml)

### Adult Bovine Serum Heat Inactivated

Cat. No. ABS-HI-1B (100 ml), ABS-HI-1A (500 ml), ABS-HI-1D (1000 ml)

### Adult Bovine Serum Gamma Irradiated

Cat. No. ABS-GI-1B (100 ml), ABS-GI-1A (500 ml), ABS-GI-1D (1000 ml)

## General Information

Bovine Serum is obtained from animals which are older than 12 months and contains more immunoglobulins than Fetal Bovine Serum and has increased protein content. Adult Bovine Serum is a cost-effective alternative to Fetal Bovine Serum.

Upon request this serum can be offered with treatments such as heat inactivation or gamma irradiation.

### Heat Inactivation:

Heat inactivation inactivates the complement system, antibodies and other active enzymes. It is done in a carefully controlled process in order to avoid damaging the cell growth promoting properties of the serum and reducing the formation of unwanted precipitates. The process involves heating the serum in a shaking water bath at exactly +56°C for 30 minutes. The shaking will help avoid the formation of protein and other forms of precipitates. After 30 minutes the serum is then cooled back down to room temperature as quickly as possible to avoid excessive exposure to heat which can damage e.g. growth factors and vitamins.

### Gamma Irradiation:

Capricorn Scientific has established process parameters and controls for maximum inactivation of contaminants by an innovative gamma irradiation process in small sized boxes at 25 – 35 kGy. When bottles are arranged in a pallet during gamma irradiation, high irradiation doses (58 kGy) are necessary to irradiate the centrally located bottles with the required doses (>30 kGy). This and the associated higher temperatures may affect the serum quality. If the irradiation is performed in single boxes, the maximum dose of irradiation does not exceed 38.7 kGy. Gentle irradiation as used by Capricorn Scientific is less likely to affect final serum quality.

## Product Specifications

Appearance	Clear amber-brownish liquid
Storage and shelf life	Store at ≤-15°C. Avoid repeated freeze-thaw cycles. Preparation of aliquots recommended. Once opened, store at 4° C and use within 4-6 weeks.
Shipping conditions	Frozen (Dry ice)
Thawing	+37°C water bath or overnight at +2°C to +8°C. Swirl gently to homogenize.

## Quality Control

Only serum batches which pass our strict quality control are released for sale. Standard parameters which are determined include pH, osmolality, content of protein, albumin, hemoglobin, endotoxin level, sterility, mycoplasma detection and virus testing.

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Cat. No. ABS-GI-1B (100 ml), ABS-GI-1A (500 ml), ABS-GI-1D (1000 ml)

## Precautions and Disclaimer

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This product is for research and further manufacturing use only.

## Help Needed?

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If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).