

## **Product Data Sheet**

**Adult Bovine Serum, Sterile, Filtered, South America, Heat Inactivated,  
Gamma Irradiated  
Product No. GB-ABS-500C, GB-ABS-1000C**

### **Product Description**

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

### **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**

Goslar Biotech 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.

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### **Product Specifications**

pH	7.0 – 8.0
Osmolality	240 – 340 mOsm/kg
Endotoxin	As reported
Total Protein	5.0 – 8.5 g/dl
Albumin	As reported
Hemoglobin	As reported
Mycoplasma	Not detected
Virus tested for	PI-3, BVDV, BVDV-AB, BHV-I
Sterility	Tested
Storage	Store at $\leq -20^{\circ}\text{C}$

### **Precautions and Disclaimer**

This product is for research use only.