

Neo Newborn Calf and Neo Calf Serum

#Cat: NB-58-0134A	Size: 500ml
#Cat: NB-58-0134B	Size: 100ml
#Cat: NB-58-0134D	Size: 100ml
#Cat: NB-58-0028B	Size: 100ml
#Cat: NB-58-0028	Size: 100ml
#Cat: NB-58-0052B	Size: 100ml
#Cat: NB-58-0052A	Size: 100ml
#Cat: NB-58-0052D	Size: 1000ml

General Information

Serum of the Neo Newborn Calf category is obtained from 3 to 10 day old calves. In comparison, Neo Calf Serum is obtained from animals which are not more than 12 months old. Neo Newborn Calf Serum and Neo Calf Serum contain more immunoglobulins than Fetal Bovine Serum and have increased protein content. They are a cost-effective alternative to Fetal Bovine Serum. Neo Newborn Calf Serum, Heat Inactivated has undergone heat inactivation, which involves heating the serum in a shaking water bath at exactly +56°C for 30 minutes. This treatment inactivates the complement system, antibodies, and other active enzymes.

Product

Product	Volume	Cat. No.
Neo Newborn Calf Serum	100 ml	NB-58-0134A
	500 ml	NB-58-0134B
	1000 ml	NB-58-0134D
Neo Newborn Calf Serum, Heat Inactivated	100 ml	NB-58-0028B
	500 ml	NB-58-0028
Neo Calf Serum	100 ml	NB-58-0052B
	500 ml	NB-58-0052A
	1000 ml	NB-58-0052D

Product Specifications

Appearance	Clear amber liquid
Storage and shelf life	Store at $\leq -15^{\circ}\text{C}$. 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	Overnight at $+2^{\circ}\text{C}$ to $+8^{\circ}\text{C}$. Swirl gently to homogenize.

For lot specific data (Certificate of Analysis) please refer to our website: www.neo-biotech.com

Additional Optional Treatments

Heat Inactivation:

Neo Biotech offers also heat inactivated FBS Advanced. Heat inactivation inactivates the complement system, antibodies and other active enzymes. This must be done in a carefully controlled process in order to maintain the cell growth promoting properties of the serum and to reduce the formation of unwanted precipitates.

The process involves heating the serum in a shaking water bath at exactly +56°C for 30 minutes. Shaking helps to prevent the formation of protein and other forms of precipitates. After 30 minutes the serum is cooled back down to room temperature as quickly as possible to avoid an over-exposure to heat which can damage growth factors and vitamins, etc.

Gamma irradiation:

Neo Biotech has established process parameters and controls for maximum inactivation of contaminants by an innovative gamma irradiation process in small sized boxes at 25 – 35kGy. When FBS 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 Neo Biotech is less likely to affect final serum quality.

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, IgG and hemoglobin, endotoxin level, sterility, mycoplasma detection and virus testing.

Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (info@neo-biotech.com) or phone (+33 9 77 40 09 09).