Neo Fetal Bovine Serum

#cat : NB-58-0001A Size : 500ml
#cat : NB-58-0001B Size : 100ml
#cat : NB-58-0025 Size : 500ml
#cat : NB-58-0161B Size : 500ml
#cat : NB-58-0159A Size : 500ml
#cat : NB-58-0159B Size : 500ml
#cat : NB-58-0140A Size : 500ml
#cat : NB-58-0140B Size : 500ml
#cat : NB-58-0162B Size : 500ml
#cat : NB-58-0162A Size : 500ml

General Information

Serum is the blood component that can be obtained after coagulation and by removing cellular components. Besides serum proteins it contains, e.g. growth factors, amino acids and hormones. This comprehensive mix makes serum one of the most important supplements, supporting cells to grow and proliferate in *in vitro* cell culture.
Of special interest is the Neo fetal bovine serum (FBS). It is especially rich in growth factors and is particularly low in antibodies, which may influence the cell culture work

Product	Origin	Treatment	Volume	Cat. No.
Neo Fetal Bovine Serum	Collected in South America	X	100 ml 500 ml	NB-58-0001B NB-58-0001A
Neo Fetal Bovine Serum	Collected in South America	Heat Inactivated	100 ml 500 ml	NB-58-0161B NB-58-0025
Neo Fetal Bovine Serum	Collected in South America	Gamma Irradiated	100 ml 500 ml	NB-58-0159B NB-58-0159A
Neo Fetal Bovine Serum	Origin USA	X	100 ml 500 ml	NB-58-0140B NB-58-0140A
Neo Fetal Bovine Serum	Origin USA	Heat Inactivated	100 ml 500 ml	NB-58-0162B NB-58-0162A

Additional Tests & Treatments

- Tested according to 9CFR
- ES cell pre-tested
- Charcoal Treated
- Delipidated
- Exosome Depleted
- IgG Depleted
- Dialysed
- Tetracycline Negative

Neo Biotech
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Product Specifications

Appearance	Clear amber 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	Overnight at +2°C to +8°C. Swirl gently to homogenize.

Additional Optional Treatments

Heat Inactivation:

Heat inactivation will inactivate the complement system, antibodies and other active enzymes. It has to be 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 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:

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 does (>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 and further manufacturing use only. Please consult the Material Safety Data Sheet (MSDS) 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

(nfo@clinisciences.com) or phone (+33 9 77 40 09 09).