
New Born Calf Serum

Product code :
NB-112

Collected from the source:

When searchers choose their serum, an important factor that should be taken into consideration is the source, which also emphasises the traceability of the serum.

Our system of vertical integration allows us to be certain of the origin and traceability of our serum.

Each manufactured batch is rigorously controlled, from the collection of serum and throughout all stages of its treatment and production through to final packaging on our premises.

Biosera New Born Calf Serum is derived from clotted whole blood collected from New Born Calves with cleaned and disinfected equipment. The blood is centrifuged and the supernatant called "serum" is put in jugs before freezing. The serum is collected or imported and treated in agreement with the European regulations.

Filtration:

Final Filter Size: 0.2 µm

Sterility:

All sera are tested for the absence of aerobic and anaerobic bacteria and fungi, yeast and mycoplasma. The sterility test is based on the European Pharmacopoeia requirements. The sera are tested for the absence of mycoplasma by culture.

Virus tested:

All of our sera are tested for:

- Bovine Viral Diarrhoea (BVD)
- Cytopathogenic agents e.g. Infectious Bovine Rhinotracheitis (IBR) / BHV-1
- Hemadsorbing agents e.g. Parainfluenza Type 3 (PI3)

Sera are tested for the absence of the indicated viruses by inoculation to permissive cells. The revelation is made by immunofluorescence for pestiviruses. Cytopathogenic agents and hemadsorbing agents are detected by microscopic observations.

Endotoxin:

All sera are tested to determine the levels of endotoxins. BioSera carries out a chromokinetic quantitative test, according to the method D of the European Pharmacopoeia.

The endotoxin reagent is standardized against the US reference endotoxin.

Osmolarity:

Determined by a lowered freezing temperature. The osmometer is calibrated against standard solution.

Haemoglobin:

The haemoglobin level is measured by spectrophotometer.

Cell Culture

Biological performance is assessed using cell culture medium supplemented with the serum being tested. During the test period, cultures are examined microscopically for any morphological abnormalities that may indicate toxic components in the serum.

Cell Culture Tests

Cell Growth, Plating Efficiency, Cloning Efficiency

Cell Lines Tested

HELA – Cancer Cell/Human

L929 – Fibroblast mouse/ As macrophage

SP2/0-AG14 – Mouse Lymphoma

Country of Origin

The country in which the serum was taken from the donor/animal. Biosera FBS is sourced from the following Countries:

- New Zealand
- Costa Rica
- Australia
- Canada
- France

Storage conditions

Store at -20°C

Shelf Life

5 years

Recommended use :

- Respect storage conditions of the serum
- Do not use the serum after its expiry date
- Store serum in an area protected from light
- Manipulate serum in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of serum to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)
- In order to preserve all serum qualities, it is recommended to thaw out the flask, to aliquote, then to re-freeze the produced flasks rather than to thaw out and re-freeze the flask at each use.

- It is recommended to use the serum immediately after its thaw out. However, if it is not useful, it is possible to store thaw out serum, at +2°C / +8°C, until 26 weeks without significant decrease of its performances in cell culture.

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.