

Fetal Bovine Serum

CAT N° : S1500, S1520, S1560, S1580, S1600, S1610, S1650, S1700, S1800, S1810, S1820, S1840

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 origins and traceability of our FBS.

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.

BioWest Fetal Bovine Serum is derived from clotted whole blood aseptically collected from fetus via cardiac puncture.

The serum is collected or imported and treated in agreement with the European regulations.

Filtration :

Final Filter Size : 0.1µm x 3

Sterility :

All sera are tested for the absence of aerobic and anaerobic bacteria, 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 serum is tested for:

- Bovine Viral Diarrhoea (BVD)
- Infectious Bovine Rhinotracheitis (IBR)
- Parainfluenza Type 3 (PI3)

Sera are tested for the absence of the indicated viruses by inoculation to GBK cells. The revelation is made by indirect immunofluorescence.

The antibodies are tested by an Elisa method.

Endotoxin :

All sera are tested to determine the levels of endotoxins. BioWest 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.

Haemoglobin :

The haemoglobin level is measured by spectrophotometer.

Osmolality :

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

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 :

The following cell lines are tested with the serum:

- HELA -Cancer Cell/Human.
- L929 -Fibroblast-Mouse/ As Macrophage
- SP2/0-AG14 -Mouse/Lymphoma
- MRC- 5 -Human/Lung.

Total Protein :

Determined by Biuret Colorimetry.

Country of Origin :

The country in which the serum was taken from the donor/animal.

BioWest sera are sourced from the following countries

Cat N° S1500 Canada	Cat N° S1520 USA Approved or USA
Cat N° S1560 Chile	Cat N° S1580 Uruguay
Cat N° S1600 Central America	Cat N° S1610 Dominican Republic
Cat N° S1650 Mexico	Cat N° S1700 Australia
Cat N° S1800 EU approved	Cat N° S1810 South America
Cat N° S1820 France	Cat N° S1840 South America EDQM certified

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.