

**FOR IN VITRO LABORATORY USE ONLY, NOT FOR DRUG, HUMAN
VETERINARY USE****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 batch is rigorously controlled, from the collection of serum and in all the stages of its treatment and production on our premises through to final packaging.

BioWest's New Born Calf Serum is derived from clotted whole blood aseptically collected from New Born Calves via the vein. The serum is imported in agreement with the french legislation.

Filtration:

Final Filter Size: 0.2µm, x 2

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 Pharmacopeia requirements.

The sera are tested for the absence of *Mycoplasma* after 21 days of 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) test.

The endotoxin reagent is standardized against the US reference endotoxin. The method is based on "the bacterial endotoxins test", US pharmacopeia 23rd revision.

Osmolarity:

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

Haemoglobin:

The haemoglobin level is measured by spectrophotometer.

Total Protein:

Determined by Electrophoresis.

Cell Culture:

Biological performance is assessed using cell culture medium supplemented with the serum being tested at a final concentration of 10%.

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- Cell/Human cancer.

L929- Mouse/ Fibroblast as Macrophage

SP2/0-AG 8-Mouse/Lymphoma

Country of Origin:

BioWest serum are sourced from the following countries:

Cat N° S0700 USA

Cat N° S0750 New Zealand, Costa Rica, Australia