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| ClearLine | Technical data sheet<br>Serum | Ref : 509477 |

# Fetal Bovine Serum Oceania

**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 foetus via cardiac puncture.
The serum is collected or imported and treated in agreement with the European regulations.

**Country of Origin:**
The country in which the serum was taken from the donor/animal.

| Cat. N° | Description | Origin(s) |
|---|---|---|
| S1700 | Fetal Bovine Serum Oceania | New Zealand, Australia |

**Storage conditions:**
- 18°C to - 40°C, protected from light.
Bottles can be stored between -40°C and -80°C for a short period (few days).

**Shelf life:**
5 years

**Filtration:**
Final Filter Size: 0.1µm x 3

**pH:**
Determined by USP <791> method.
pH specification: 7,4 ± 0,6

**Osmolality:**
Determined by a lowered freezing temperature, chapter 2.2.35 of the European Pharmacopoeia. The osmometer is calibrated against standard solutions.
Osmolality specification: 322,5 ± 42,5 mOsm/kg

**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 Chapter 2.6.14 of the European Pharmacopoeia.
The endotoxin reagent is standardized against the US reference endotoxin.
Endotoxin specification: < 30 EU/ml

**Haemoglobin:**
The haemoglobin level is measured by spectrophotometer, according to USP <851> method.
Haemoglobin specification: < 40 mg/100ml

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**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:**
Total Protein is measured following the Chapter 2.5.33 of the European Pharmacopoeia.
Total Protein specification: 40 ± 15 g/l

**Sterility tests:**
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* following the Chapter 2.6.7 of the European Pharmacopoeia.

**Virus test:**
S1700 is tested by 9 CFR 113.53 method for:
- Bovine Viral Diarrhoea Virus (BVD)
- Cytopathogenic agents e.g. Infectious Bovine Rhinotracheitis (IBR) / BHV-1
- Hemadsorbing agents e.g. Parainfluenza Type 3 (Pl3)
- Bluetongue Virus
- Bovine Adenovirus 3 and 5
- Reovirus
- Rabies virus
- Bovine Respiratory Syncitial Virus
- Bovine Parvovirus

**Other tests:**
Not Applicable

**Treatments:**
Not Applicable

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**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 for research or further manufacturing only and not for use as an Active Pharmaceutical Ingredient or food or animal feed.

**Remarks:**
The raw serum may be treated (Heat Inactivated, Gamma Irradiated, pH modified) before filtration for different reasons:
- Importation regulation
- Exportation necessity
- Technical or quality aspects

To be informed if your batch is concerned by treatment before filtration, please contact Biowest.

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