

	<b>Technical data sheet</b>	Ref : FT FB-xxxxM Page : 1/3
		Version date : 02/05/2024

## Serum E.V. Depleted

### CAT N°: FB-xxxxM

For E.V. depleted product the **letter M** is added at the end of the regular CAT n° serum.

### 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 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 Serum is derived from clotted whole blood collected from animal.

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.

To see the countries of origin we can offer, please refer to the technical data sheet for the standard Fetal Bovine Serum (ref. FT FBS).

### 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: 0.2µm

### pH:

Specifications available on Certificate of Analysis

### Osmolality:

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

Specifications available on Certificate of Analysis

	<b>Technical data sheet</b>	Ref : FT FB-xxxxM Page : 2/3
		Version date : 02/05/2024

#### **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.

Specifications available on Certificate of Analysis

#### **Haemoglobin:**

The haemoglobin level is measured by spectrophotometer.

Specifications available on Certificate of Analysis

#### **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.

Specifications available on Certificate of Analysis

#### **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* by culture.

	<b>Technical data sheet</b>	Ref : FT FB-xxxxM Page : 3/3
		Version date : 02/05/2024

### **Virus test:**

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 by inoculation to permissive cells. The revelation is made by immunofluorescence for pestiviruses. Cytopathogenic agents and hemadsorbing agents are detected by microscopic observations.

### **Other tests:**

Not Applicable

### **Treatments:**

Extracellular Vesicles Depleted serum is treated with our proprietary method. This treatment depletes the microvesicles naturally present in the serum. The depletion rate is measured with ELISA method. The criterion of acceptance is a depletion greater than or equal to 95%.

### **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:**

Not applicable