Horse 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.
BioWest Horse Serum is derived from clotted whole blood collected from horses 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.

Country of Origin:
The country in which the serum was taken from the animal.
BioWest sera are sourced from France and Spain.

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:
pH specification: Not applicable

Osmolality:
Determined by a lowered freezing temperature. The osmometer is calibrated against standard solutions.
Osmolality specification: Not applicable

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.
Endotoxin specification: As low as possible

Haemoglobin:
The haemoglobin level is measured by spectrophotometer.
Haemoglobin specification: As low as possible

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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

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

Total Protein:
Determined by Biuret Colorimetry.
Total Protein specification: Not applicable

Sterility Test:
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 Test:
All of our equine serum is tested for Equine Infectious Anaemia (EIA)
The test is an “Elisa-test” made on final filtered products.

Treatments:
Not applicable

Other tests:
Not applicable

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Recommended use:
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 aliquot, 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

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