

EXOFREE FBS

CAT N° : SBM1313

Application : Cell culture, vesicular research.

Formulation : Fetal Bovine Serum (FBS) from European Origin

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.

Cell Culture : tested

Virus Tested :

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

Shelf life : 6 months

pH :

pH specification: 6.8 to 7.8.

Storage conditions : 4°C

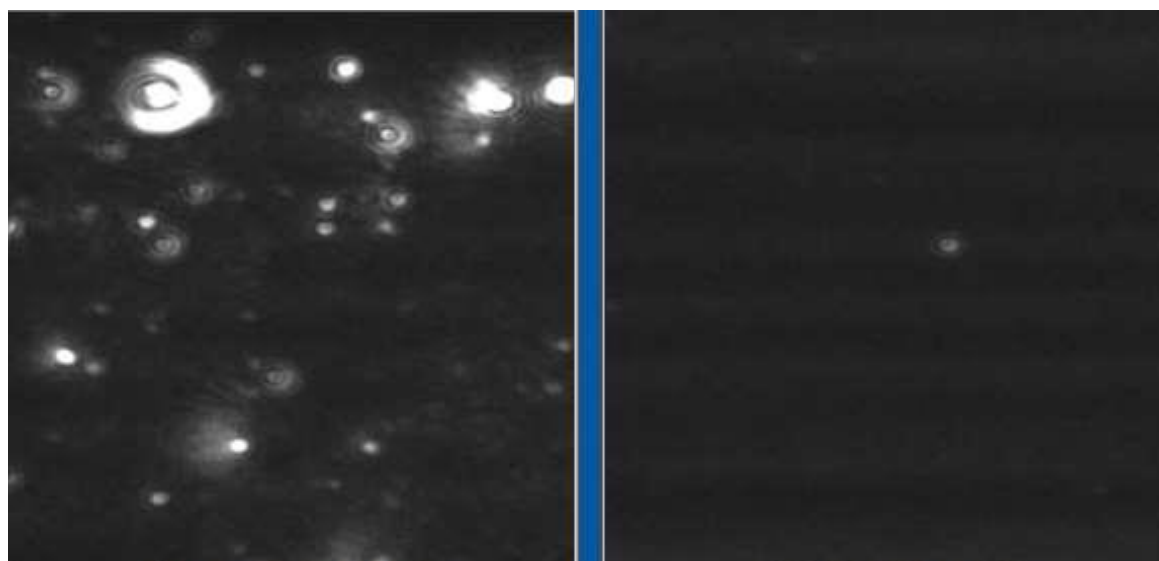
Long term storage -15°C. Freezing can oscillate the vesicular level.

General information :

Solmeclas EXOFREE FBS is the ideal cell culture complement for growing the desired cell lines, eliminating interference that may cause those vesicles present in serum complements. Depletion of extracellular vesicles takes places after several processes of ultrafiltration, obtaining a serum free of such molecules, achieving over 90% deplete vesicle initially present. Heat inactivated and concentrated to 100%. Ready to dilute from 90% to 99% with the culture medium that you determine more appropriate.

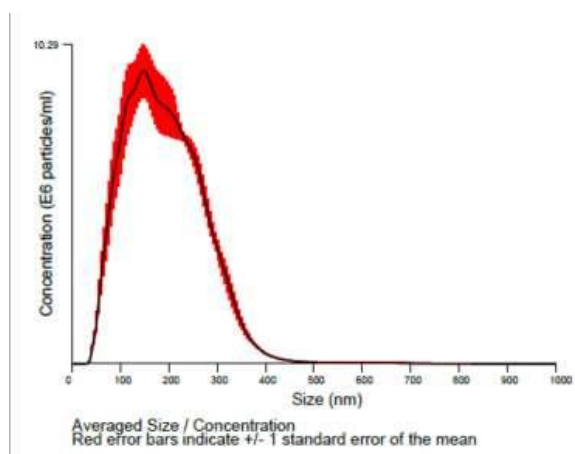
Technical specifications :

EXOFREE FBS guarantees high growth for a large number of cell lines, and simultaneously eliminates interference that may produce proteins or vesicles present in the calf serum. Following are some images of the controls performed with Zeta View in different serum:

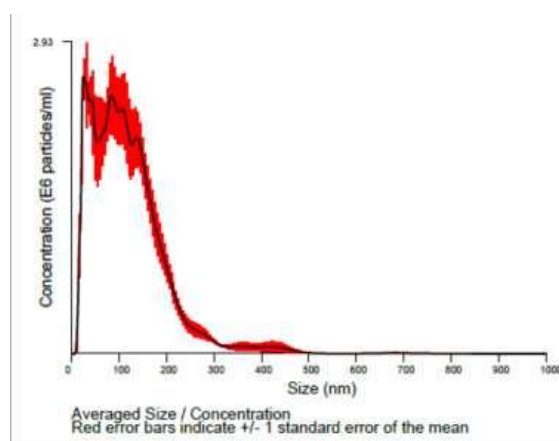


Ultrapelleted FBS

EXOFREE FBS

ZETAVIEW IMAGE


Ultracentrifugation



EXOFREE FBS

Vesicles Total Concentration :

- Ultracentrifugation Depleted Standard FBS: 19.26 +/- 1.50 E⁸ Particles/ml
- EXOFREE FBS: 4.02 +/- 0.41 E⁸ Particles/ml

Vesicles Average Size :

- Ultracentrifugation Depleted Standard FBS: 192 +/- 5.6 nm
- EXOFREE FBS: 118 +/- 2.2 E⁸ nm

Storage information :

EXOFREE FBS is provided to the user at 4°C. It's recommendable to keep it at this temperature if it's to be used on a regular form, otherwise it's recommendable to store the product at -15°C, however, this can disturb the vesicular proportions.