



## HIGH QUALITY FETAL BOVINE SERA

Choose Euroclone “Specialty FBS” and eliminate the need for screening serum batches, saving time and money.

These Fetal Bovine Sera are selected batches of serum tested or treated in order to ensure high quality, perfect match with several research applications and particularly suitable for specific cell cultures.

Euroclone supplies a wide range of sera origins including sources from South America as well as from the European Union (EU) and from sources approved by United States Department of Agriculture (USDA).

### **FBS Gamma Irradiated**

This serum combines a very high level of safety without altering its biological properties. Gamma irradiation at 25-35 kGy is a very effective method for viral inactivation of fetal bovine serum without any negative effect on growth factors.

The use of FBS Gamma Irradiated is suggested for virus and vaccine productions, on biopharmaceutical productions and during the manufacture of diagnostic products.

### **FBS Heat Inactivated**

This serum is prepared by heating it at 56°C for 30 minutes. This process inactivates the complement acting in the immune system and is suggested to avoid interference with some experiments, for example immunology tests. Moreover, this treatment allows to inactivate viruses and to destroy some bacterial contaminants such as mycoplasma.

### **Ultra-Low Endotoxin FBS**

Ultra-Low Endotoxin FBS is rigorously controlled, from the collection up to final packaging on our premises. All manufacturing steps are in accordance with the European regulations and follow the highest quality standards.

This serum is the preferred choice for several academic and industrial applications which requires lowest endotoxin levels. Each batch has endotoxin level < 0.1 EU/ml

### **Tetracycline Negative FBS**

Tetracycline Negative FBS is designed for researchers using very sensitive tet-inducible gene expression systems and want to avoid unintended expression as a result.

The serum is tested for the presence of Chlortetracycline, Oxytetracycline and Tetracycline by a liquid chromatography electrospray ionisation tandem mass spectrometry method. We guarantee a detection level <0.05 mg/l.

### **FBS Dialysed**

Dialysed FBS is depleted, by filtration process, of small molecules such as hormones, nucleotides and amino acids. The cut off molecular weight is 10KDa.

The use of FBS Dialysed is suggested for “hormone free” cell culture, minimal essential growth supplement and incorporation studies.

### **Euromed ES FBS**

Euromed ES FBS is specially tested for the ability to sustain undifferentiated cellular morphology of embryotic stem cell. The screening includes colony morphology, toxicity tests and plating efficiency. The level of endotoxin is < 1 EU/ml.

### **Chromosome FBS**

Chromosome FBS is a special serum tested for Cytogenetics applications. Its use is suggested for Postnatal analysis in peripheral blood and bone marrow cell sculture.

Suitable also for prenatal diagnostic culture, for amnion and chorionic villi cells.

### **Exosome depleted FBS**

This serum is treated with ultrafiltration method, that depletes  $\geq 95\%$  of exosome.

Exosomes are extracellular vesicles released from the cells by the plasma membrane.

The biological functions of these structures are the most important topic to be investigated in exosome research.

The use of this serum allows to prevent the interference between the exosomes naturally present in the serum and those derived from the cell culture.

### **Premium FBS**

This serum is a collection of South America high quality batches, selected on excellent and defined values for essential data: endotoxin level < 5 Eu/ml, haemoglobin level < 25 mg/100 ml, growth promotion > 80%.

By respecting those criteria, a very low batch to batch variation is guaranteed, avoiding waste of time in batch testing.

For Product Codes and more info consult Euroclone “Cell Biology Brochure”:

