

Tet System Approved FBS, US-Sourced

| Catalog No(s). | Amount | Lot Number |
|----------------|--------|------------|
| 631101 | 500 ml | A14017 |

Description

Fetal Bovine Serum (FBS) that has been functionally tested for optimal use with all of our Tet Systems. This FBS does not contain trace levels of tetracycline (or derivatives) which have been observed to interfere with proper regulation of TRE-controlled gene expression. Use of this serum ensures the maximal range of induction possible with the Tet Systems. This FBS has been processed in the United States.

Storage Conditions

- Store at -20°C .

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Shipping Conditions

- Dry ice (-70°C)

Quality Control Data

Functional testing:

Tet System Approved Fetal Bovine Serum has been tested at Clontech® with the Tet-Off® CHOAA8-Luc cell line which is sensitive to nanogram concentrations of tetracyclines. The full range of induction possible with the Tet system was observed.

Manufacturer testing:

This material was collected at USDA approved abattoirs located in the United States. The dams of the fetuses received ante and post mortem inspection and are found free of contagious disease. The product meets European Union requirements for production of technical blood products.

The cattle have never been in contact with or have never had any association to any herds that have had a breakout of BSE (Bovine Spongiform Encephalopathy). The cattle have never had any association with any other animal or animals that could transfer TSE (Transmissible Spongiform Encephalopathy). The country of origin of the crude blood (donor cow) is USA.

Filtration:

Triple 0.1 μm filtered.

Clontech Laboratories, Inc.

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|--|---------------------------------|------------------------------|-----------------------------|
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|--|---------------------------------|------------------------------|-----------------------------|

Certificate of Analysis

Cat. No. 631101

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Product Integrity Analysis:

This serum has been tested by the manufacturer and observed to conform to the following specifications:

| Test | Specification |
|-------------------------------|---------------------|
| Appearance | Clear Amber Liquid |
| Sterility | Negative for Growth |
| Bacteria and Fungi | Not Detected |
| Mycoplasma | Not Detected |
| DNA | Not Detected |
| Virus Testing: | |
| BAV1 | Not Detected |
| BAV5 | Not Detected |
| BVDV | |
| Type 1, 2 BVD, Cytopathic BVD | Not Detected |
| BPV | Not Detected |
| BRSV | Not Detected |
| BTV | Not Detected |
| Rabies | Not Detected |
| REO | Not Detected |
| CPE—Giemsa (IBR) | Not Detected |
| Hemadsorption Agents (P13) | Not Detected |
| Serum Neutralization | |
| BVDV Antibody Type 1 | Undiluted |
| BVDV Antibody Type 2 | < Undiluted |
| pH at RT | 6.5–8.5 |
| Osmolality | 260–350 mOsm/kg |
| Endotoxin | ≤10.0 EU/ml |
| Hemoglobin | ≤12.39 mg/dl |
| Total Protein | 2.5–4.0 g/dl |
| Electrophoretic Pattern | Normal |
| Performance Testing | |
| MTT Assay | >75% of Control |
| Cytotoxicity Assay | None Observed |
| Hybridoma Screened | >75% of Control |

Product Chemical Analysis:

| Test | Results |
|---|-------------|
| Biochemical Assay—Proteins/Other | |
| Alkaline Phosphatase | 225 IU/l |
| AST (SGOT) | 58 IU/l |
| ALT (SGPT) | 6 IU/l |
| GGT | 5 IU/l |
| Total Bilirubin | 0.3 mg/dl |
| BUN | 16 mg/dl |
| Cholesterol | 35 mg/dl |
| Glucose | 64 mg/dl |
| Uric Acid | 1.5 mg/dl |
| Triglyceride | 47 mg/dl |
| Creatinine | 3.0 mg/dl |
| Bovine IgG (ELISA) | 209.6 µg/ml |
| Total Protein | 3.7 g/dl |
| Albumin | 2.1 g/dl |
| Alpha 1,2 | 1.3 g/dl |
| Beta | 0.3 g/dl |
| Gamma | 0.0 g/dl |
| Biochemical Assay—Trace Metals | |
| Calcium | 13.9 mg/dl |
| Chloride | 101 mEq/l |
| Phosphorus | 9.1 mg/dl |
| Potassium | 9.1 mEq/l |
| Serum Iron | 186 µg/dl |
| Magnesium | 3.0 mg/dl |
| Sodium | 139 mEq/l |
| Biochemical Assay—Hormones | |
| Testosterone | 0.19 ng/ml |
| Estradiol | 22.88 pg/ml |
| Insulin | 6.38 µIU/ml |
| Cortisol | <0.2 µg/dl |
| Progesterone | <0.1 ng/ml |
| T3 | 43 ng/dl |
| T4 | 11.7 µg/dl |

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