

Tet System Approved FBS, US-Sourced

| Catalog No(s). | Amount | Lot Number |
|-----------------------|---------------|-------------------|
| 631101 | 500 ml | A17038 |

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 Takara Bio 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.

Takara Bio USA, Inc.

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U.S. Technical Support: techUS@takarabio.com

| | | | |
|--|---------------------------------|------------------------------|-----------------------------|
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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 |
| Serum Identity | Characteristic |
| Sterility | Negative for Growth |
| Mycoplasma | Not Detected |
| Virus Testing: | |
| BAV1 | Not Detected |
| BAV5 | Not Detected |
| BVD Cytopathic | Not Detected |
| BVD Non-Cytopathic | Not Detected |
| BPV | Not Detected |
| BRSV | Not Detected |
| BTV | Not Detected |
| Rabies | Not Detected |
| REO | Not Detected |
| Cytopathic (IBR) | Not Detected |
| P13 Hemadsorbing | Not Detected |
| pH at RT | 6.5–8.5 |
| Osmolality | 260–350 mOsm/kg |
| Endotoxin | ≤10.0 EU/ml |
| Hemoglobin | ≤30.0 mg/dl |

Product Chemical Analysis:

| Test | Results |
|---|-------------|
| Biochemical Assay—Proteins/Other | |
| Alkaline Phosphatase | 203 IU/l |
| AST (SGOT) | 54 IU/l |
| ALT (SGPT) | 6 IU/l |
| GGT | 5 IU/l |
| Total Bilirubin | 0.3 mg/dl |
| Cholesterol | 27 mg/dl |
| Glucose | 108 mg/dl |
| Urea | 15 mg/dl |
| Uric Acid | 2.4 mg/dl |
| Triglyceride | 60 mg/dl |
| Creatinine | 2.5 mg/dl |
| Bovine IgG (ELISA) | 89.9 µg/ml |
| Total Protein | 3.5 g/dl |
| Albumin | 1.9 g/dl |
| Alpha 1, 2 | 1.3 g/dl |
| Beta | 0.3 g/dl |
| Gamma | 0.1 g/dl |
| Biochemical Assay—Trace Metals | |
| Calcium | 13.0 mg/dl |
| Chloride | 96 mEq/l |
| Phosphorus | 9.3 mg/dl |
| Potassium | >10.0 mEq/l |
| Magnesium | 3.1 mg/dl |
| Sodium | 132 mEq/l |
| Iron | 167 Ug/dl |
| Biochemical Assay—Hormones | |
| Testosterone | <0.01 ng/ml |
| Estradiol | 43.4 pg/ml |
| Insulin | 8.42 µIU/ml |
| Cortisol | 0.255 µg/dl |
| Progesterone | <0.1 ng/ml |
| T3 | 149 ng/dl |
| T4 | 9.0 µg/dl |

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Takara Bio USA, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

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3/7/2018