

Tet System Approved FBS

| | | |
|------------------------------|-------------------------|--------------------------------|
| Catalog No. 631106 | Amount 500 ml | Lot Number 253381501 |
|------------------------------|-------------------------|--------------------------------|

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 its 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.

Storage Conditions

- Store at -20°C.

Expiration Date

- FEB. 10, 2030

Shipping Conditions

- Dry ice

Quality Control Data

Functional Testing:

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

Manufacturer Testing:

The raw fetal bovine serum used in the manufacture of this material was collected and processed from abattoirs located in Mexico. The maternal animals from which the fetal blood was derived received ante- and post- mortem inspections at the time of slaughter under the supervision of a licensed veterinarian and appeared free of infectious and contagious diseases and parasites. This material has been tested via 9CFR113.53 for Adventitious Viral Agents. The Fetal Bovine Serum (FBS) was processed in the USA. The lot was quarantined until USDA safety tested and approved this lot for commercial distribution. The cattle have never been in contact with or have never had any association to any herds that have had any 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).

Country of Raw Material Origin:

Mexico

Country of Final Processing:

United States

Filtration:

Triple 0.1 µm filtered.

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

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

United States/Canada
800.662.2566
(070824)

Asia Pacific
+1.650.919.7300

Europe
+33.(0)1.3904.6880

Japan
+81.(0)77.565.6999

Certificate of Analysis

Cat. No. 631106

Tet System Approved FBS

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 |
| Virus Testing: | |
| BAV | Not Detected |
| BVDV-Cytopathic | Not Detected |
| BPV | Not Detected |
| BRSV | Not Detected |
| BTV | Not Detected |
| Rabies | Not Detected |
| REO | Not Detected |
| CPE-Giemsa (IBR) | Not Detected |
| Hemadsorption Agents (PI3) | Not Detected |
| pH at RT | 6.5–8.5 |
| Osmolality | 260–350 mOsm/kg |
| Endotoxin | ≤10.0 EU/ml |
| Hemoglobin | ≤20.0 mg/dl |
| Total Protein | 3.0–4.5 g/dl |
| Electrophoretic Pattern | Normal |

Product Chemical Analysis:

| Biochemical Assay—Proteins/Other | | |
|----------------------------------|---------|-------|
| Test | Results | Unit |
| Alkaline Phosphatase | 232 | IU/l |
| AST (SGOT) | 18 | IU/l |
| ALT (SGPT) | 6 | IU/l |
| GGT | 6 | IU/l |
| Total Bilirubin | 0.2 | mg/dl |
| BUN | 16 | mg/dl |
| Cholesterol | 30 | mg/dl |
| Glucose | 143 | mg/dl |
| Uric Acid | 4.9 | mg/dl |
| Triglyceride | 42 | mg/dl |
| Creatinine | 2.9 | mg/dl |
| Bovine IgG (ELISA) | 287.3 | µg/ml |
| Albumin | 2.2 | g/dl |

| Biochemical Assay—Trace Metals | | |
|--------------------------------|---------|-------|
| Test | Results | Unit |
| Calcium | 13.0 | mg/dl |
| Chloride | 99 | mM |
| Phosphorus | 10.0 | mg/dl |
| Potassium | 12.5 | mM |
| Magnesium | 3.2 | mg/dl |
| Serum Iron | 169 | µg/dl |
| Sodium | 136 | mM |

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

Tet System Approved FBS

CATALOG NO.

631106

NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. 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 our prior written approval.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, 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.

TRADEMARKS:

©2024 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

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

United States/Canada

800.662.2566

Asia Pacific

+1.650.919.7300

Europe

+33.(0)1.3904.6880

Japan

+81.(0)77.565.6999

7/8/2024