

## Tet System Approved FBS

**Catalog No.**  
631106

**Amount**  
500 ml

**Lot Number**  
A20076

### 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  $-20^{\circ}\text{C}$ .

### Shelf Life

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

### Shipping Conditions

- Dry ice ( $-70^{\circ}\text{C}$ )

### 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 California, 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  $\mu\text{m}$  filtered.

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#### Takara Bio USA, Inc.

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U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

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# Certificate of Analysis

Cat. No. 631106

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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	
Virus Testing:	
BAV1	Not Detected
BAV5	Not Detected
BVDV	
Type 1, 2 BVD, Cytopathic BVD	Tested
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
pH at RT	6.5–8.5
Osmolality	260–350 mOsm/kg
Endotoxin	≤10.0 EU/ml
Hemoglobin	≤30.0 mg/dl
Total Protein	3.0–5.0 g/dl
Electrophoretic Pattern	Normal

## Product Chemical Analysis:

Test	Results
<b>Biochemical Assay—Proteins/Other</b>	
Alkaline Phosphatase	280 IU/l
AST (SGOT)	48 IU/l
ALT (SGPT)	11 IU/l
GGT	5 IU/l
Total Bilirubin	0.10 mg/dl
BUN	16 mg/dl
Cholesterol	33 mg/dl
Glucose	86 mg/dl
Uric Acid	2.1 mg/dl
Triglyceride	57 mg/dl
Creatinine	2.7 mg/dl
Bovine IgG (ELISA)	181.80 mg/l
Albumin	1.7 g/dl
Alpha 1,2	1.7 g/dl
Beta	0.2 g/dl
Gamma	0.0 g/dl
<b>Biochemical Assay—Trace Metals</b>	
Calcium	14.2 mg/dl
Chloride	98 mEq/l
Phosphorus	9.2 mg/dl
Potassium	11.5 mEq/l
Serum Iron	175 µg/dl
Sodium	136 mEq/l
<b>Biochemical Assay—Hormones</b>	
T3	85.2 ng/dl
T4	14.8 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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1/26/2017

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