

## Tet System Approved FBS, US-Sourced

<b>Catalog No(s).</b>	<b>Amount</b>	<b>Lot Number</b>
631101	500 ml	A19023

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

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

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#### Takara Bio USA, Inc.

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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
BVD Type 1, 2 BVD	Not Detected
BVD Cytopathic	Not Detected
BPV	Not Detected
BRSV	Not Detected
BTV	Not Detected
Rabies	Not Detected
REO	Not Detected
CPE - Giemsa (IBR)	Not Detected
P13 Hemadsorbing	Not Detected
Serum Neutralization	
BVDV Antibody Type 1	1:4
BVDV Antibody Type 2	1:2
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 gm/dl
Electrophoretic Pattern	Normal
Performance Testing	MTT Assay >75% of Control
	Cytotoxicity None Observed
	Hybridoma Screened >75% of Control

## Product Chemical Analysis:

Test	Results
<b>Biochemical Assay—Proteins/Other</b>	
Alkaline Phosphatase	241 IU/l
AST (SGOT)	61 IU/l
ALT (SGPT)	7 IU/l
GGT	4 IU/l
Total Bilirubin	0.3 mg/dl
BUN	14 mg/dl
Cholesterol	25 mg/dl
Glucose	100 mg/dl
Uric Acid	2.6 mg/dl
Triglyceride	60 mg/dl
Creatinine	2.3 mg/dl
Bovine IgG (ELISA)	90.4 µg/ml
Total Protein	3.4 g/dl
Albumin	1.9 g/dl
Alpha 1, 2	1.2 g/dl
Beta	0.2 g/dl
<b>Biochemical Assay—Trace Metals</b>	
Calcium	12.7 mg/dl
Chloride	95 mEq/l
Phosphorus	9.2 mg/dl
Potassium	>10.0 mEq/l
Serum Iron	169 µg/dl
Magnesium	3.0 mg/dl
Sodium	133 mEq/l
<b>Biochemical Assay—Hormones</b>	
Testosterone	<0.01 ng/ml
Estradiol	43.6 pg/ml
Insulin	6.34 µIU/ml
Cortisol	0.221 µg/dl
Progesterone	<0.2 ng/ml
T3	115 ng/dl
T4	15.0 µg/dl

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

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### CATALOG NO.

631101

### 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.

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11/5/2019