

Tet System Approved FBS, US-Sourced

Catalog No.	Amount	Lot Number
631101	500 ml	241171501

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 .

Expiration Date

- MAR. 22, 2029

Shipping Conditions

- Dry ice

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:

The raw fetal bovine serum used in the manufacture of this material was from fetal bovine blood collected from government approved harvest facilities located in the United States, a country recognized by the United States Department of Agriculture - Animal and Plant Health Inspection Service (USDA-APHIS) and the World Organization for Animal Health (OIE) as having a negligible risk of Bovine Spongiform Encephalopathy (BSE), a bovine-specific Transmissible Spongiform Encephalopathy (TSE). All fetal bovine serum is derived from fetuses collected from healthy bovine cows and heifers that have passed ante- and postmortem inspection and were found free of contagious diseases.

Country of Raw Material Origin:

United States

Country of Final Processing:

United States

Filtration:

Triple 0.1 μm filtered.

Takara Bio USA, Inc.

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U.S. Technical Support: technical_support@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
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
Growth Performance Testing:	
MTT Assay	Pass

Product Chemical Analysis:

Biochemical Assay—Proteins/Other		
Test	Results	Unit
Alkaline Phosphatase	236	IU/l
AST (SGOT)	61	IU/l
ALT (SGPT)	7	IU/l
GGT	4	IU/l
Total Bilirubin	0.2	mg/dl
BUN	14	mg/dl
Cholesterol	29	mg/dl
Glucose	108	mg/dl
Uric Acid	2.4	mg/dl
Triglyceride	85	mg/dl
Creatinine	2.3	mg/dl
Bovine IgG (ELISA)	63.2	µg/ml
Albumin	1.9	g/dl

Biochemical Assay—Trace Metals		
Test	Results	Unit
Calcium	13.3	mg/dl
Chloride	97	mM
Phosphorus	10.4	mg/dl
Potassium	14.1	mM
Magnesium	3	mg/dl
Serum Iron	188	µg/dl
Sodium	135	mM

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 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.

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