

Tet System Approved FBS, US-Sourced

Catalog No(s).	Amount	Lot Number
631101	500 ml	A21002

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.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA
U.S. Technical Support: techUS@takarabio.com

United States/Canada 800.662.2566 (050517)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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Certificate of Analysis

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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 Straw to Amber Liquid
Sterility	Negative for Growth
Bacteria	No Growth
Fungi	No Growth
Mycoplasma	Not Detected
Virus Testing:	
BAV1	Not Detected
BAV5	Not Detected
BVD, Cytopathic	Not Detected
BVD, Non-Cytopathic	Detected
BPV	Not Detected
BRSV	Not Detected
BTV	Not Detected
Rabies	Not Detected
REO Virus	Not Detected
CPE - Giemsa (IBR)	Not Detected
Hemadsorbing (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	2.5-4.0 g/dl

Product Chemical Analysis:

Test	Results
Biochemical Assay—Proteins/Other	
Alkaline Phosphatase	247 IU/l
AST (SGOT)	65 IU/l
ALT (SGPT)	13 IU/l
GGT	3 IU/l
Total Bilirubin	0.2 mg/dl
BUN	13 mg/dl
Cholesterol	31 mg/dl
Glucose	74 mg/dl
Uric Acid	1.7 mg/dl
Triglyceride	59 mg/dl
Creatinine	2.3 mg/dl
Bovine IgG (ELISA)	90.2 mg/l
Biochemical Assay—Protein Electrophoresis	
Albumin	1.4 g/dl
Alpha Globulins	1.7 g/dl
Beta Globulins	0.2 g/dl
Gamma Globulins	0.0 g/dl
Biochemical Assay—Trace Metals	
Calcium	13.8 mg/dl
Chloride	96 mEq/l
Phosphorus	9.4 mg/dl
Potassium	12.0 mEq/l
Serum Iron	170 µg/dl
Magnesium	2.5 mEq/l
Sodium	134 mEq/l
Biochemical Assay—Hormones	
Testosterone	0.01 ng/ml
Estradiol	25 pg/ml
Insulin	7.93 µIU/ml
Tetracycline	<1.0 ng/ml
Progesterone	<0.06 ng/ml
T3	60.2 ng/dl
T4	11.5 µg/dl
Biochemical Assay—Performance Testing	
Cell Type: SP2/0-Ag14 Day 3	109.4 %
Cell Type: MRC-5 Day 5	105.3 %
Cell Type: CHO K1 Day 3	112.1 %
Relative Colony Forming Efficiency	113.2 %
Absolute Colony Forming Efficiency	74.5 %
Relative Cloning Efficiency	116.4 %
Absolute Cloning Efficiency	40.6 %

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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4/6/2020