

## Tet System Approved FBS

<b>Catalog No(s).</b>	<b>Amount</b>	<b>Lot Number</b>
631106	500 ml	A13020

### 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 Clontech® 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 Guatemala. 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:** Guatemala

**Country of Final Processing:** United States

**Filtration:** Triple 0.1  $\mu\text{m}$  filtered.

---

#### Clontech Laboratories, Inc.

A Takara Bio Company  
1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

United States/Canada	Asia Pacific	Europe	Japan
800.662.2566 (060413)	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.543.6116

# 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
Bacteria and Fungi	Not Detected
Mycoplasma	Not Detected
DNA	Not Detected
Virus Testing:	
BAV1	Not Detected
BAV5	Not Detected
BVDV	
Type 1, 2 BVD, Cytopathic BVD	Not Detected
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
Serum Neutralization	
BVDV Antibody Type 1	Undiluted
BVDV Antibody Type 2	<Undiluted
USDA Safety Testing	Pass
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
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	331 IU/l
AST (SGOT)	32 IU/l
ALT (SGPT)	4 IU/l
GGT	5 IU/l
Total Bilirubin	0.2 mg/dl
BUN	20 mg/dl
Cholesterol	34 mg/dl
Glucose	59 mg/dl
Uric Acid	2.0 mg/dl
Triglyceride	60 mg/dl
Creatinine	2.9 mg/dl
Bovine IgG (ELISA)	101.5 µg/ml
Total Protein	3.8 g/dl
Albumin	2.2 g/dl
Alpha 1,2	1.3 g/dl
Beta	0.3 g/dl
Gamma	0.0 g/dl
<b>Biochemical Assay—Trace Metals</b>	
Calcium	14.0 mg/dl
Chloride	102 mEq/l
Phosphorus	8.8 mg/dl
Potassium	>10.0 mEq/l
Serum Iron	162 µg/dl
Magnesium	3.1 mg/dl
Sodium	138 mEq/l
<b>Biochemical Assay—Hormones</b>	
Testosterone	0.11 ng/ml
Estradiol	19.83 pg/ml
Insulin	7.81 µIU/ml
Cortisol	<0.2 µg/dl
Progesterone	<0.2 ng/ml
T3	63 ng/dl
T4	14.7 µg/dl

---

## Tet System Approved FBS

### CATALOG NO.

631106

### NOTICE TO PURCHASER:

Clontech 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. Clontech 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 Clontech Laboratories, 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.clontech.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

### TRADEMARKS:

Clontech, the Clontech logo, and Tet-Off are trademarks of Clontech Laboratories, Inc.

All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions. Clontech is a Takara Bio Company. ©2014 Clontech Laboratories, Inc. This document has been reviewed and approved by the Clontech Quality Assurance Department.

---

#### Clontech Laboratories, Inc.

A Takara Bio Company  
1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

4/28/2014

United States/Canada	Asia Pacific	Europe	Japan
800.662.2566	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.543.6116