

## Tet System Approved FBS, US-Sourced

Catalog No(s).	Amount	Lot Number
631105	50 ml (sample)	A12009

### 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 Clontech® 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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#### 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 (060513)	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.543.6116

# Certificate of Analysis

Cat. No. 631105

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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
Bacteria and Fungi	Not Detected
Mycoplasma	Not Detected
DNA	Not Detected
Virus Testing:	
BAV3	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
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
Performance Testing	
MTT Assay	>75% of Control
Cytotoxicity Assay	None Observed
Hybridoma Screened	>75% of Control

## Product Chemical Analysis:

Test	Results
<b>Biochemical Assay—Proteins/Other</b>	
Alkaline Phosphatase	162 IU/l
AST (SGOT)	53 IU/l
ALT (SGPT)	7 IU/l
GGT	3 IU/l
Total Bilirubin	0.1 mg/dl
BUN	14 mg/dl
Cholesterol	13 mg/dl
Glucose	99 mg/dl
Uric Acid	2.1 mg/dl
Triglyceride	58 mg/dl
Creatinine	2.4 mg/dl
Bovine IgG (ELISA)	118.9 µg/ml
Total Protein	3.1 g/dl
Albumin	1.7 g/dl
Alpha 1,2	1.1 g/dl
Beta	0.3 g/dl
Gamma	0.0 g/dl
<b>Biochemical Assay—Trace Metals</b>	
Calcium	12.1 mg/dl
Chloride	93 mEq/l
Phosphorus	8.9 mg/dl
Potassium	9.7 mEq/l
Serum Iron	145 µg/dl
Magnesium	2.8 mg/dl
Sodium	126 mEq/l
<b>Biochemical Assay—Hormones</b>	
Testosterone	0.08 ng/ml
Estradiol	29.70 pg/ml
Insulin	5.68 µIU/ml
Cortisol	<0.2 µg/dl
Progesterone	<0.1 ng/ml
T3	86 ng/dl
T4	13.5 µg/dl

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1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

6/5/2013

**United States/Canada**

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