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**PRODUCT: Tet System Approved FBS, US-Sourced**

**CATALOG No.**      **AMOUNT**  
631101                500 ml

**LOT NUMBER:** 7J0464R2

**STORAGE CONDITIONS**  
Store at  $-20^{\circ}\text{C}$ .

**SHELF LIFE**  
1 year from date of receipt under proper storage conditions

**SHIPPING CONDITIONS**  
Dry ice ( $-70^{\circ}\text{C}$ )

**FOR RESEARCH USE ONLY**

**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 collected in the United States.

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**QUALITY CONTROL DATA****Functional testing:**

Tet System Approved Fetal Bovine Serum has been tested at Clontech Laboratories, Inc. with the Tet-Off® CHO-AA8-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 serum has been derived from blood aseptically collected in approved abattoirs. The serum was aseptically processed and filter sterilized in Canada, in a facility registered with Medical Devices (U.S.) and following guidelines of the F.D.A. (U.S.) and H.P.B. (Canada). The country of origin of the crude blood (donor cow origin) is USA.

See back of page for details.

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(PA124295)

**Product Integrity Analysis:** This serum has been tested by the manufacturer and observed to conform to the following specifications:

<u>Test</u>	<u>Specification</u>
appearance	clear, light straw-dark amber liquid
endotoxin	≤ 10.0 EU/mL
hemoglobin	≤ 20 mg/dL
IgG	180 mcg/mL
<i>Mycoplasma</i>	not detected
adventitious virus:	not detected
Adeno, Parvo, Blue tongue, BVD, CPE, HA, IBR, PI3, Rabies, REO, BRSV, VSV	
pH	6.8 - 8.1
osmolality	280 - 330 mOsm/kg H <sub>2</sub> O
total protein	3.0 - 4.3 g/dL
electrophoretic pattern	normal pattern for fetal bovine serum
A/G ratio	2.7
albumin	2.5 g/dL
alpha 1 globulin	0.2 g/dL
alpha 2 globulin	0.5 g/dL
beta globulin	0.2 g/dL
gamma globulin	< 0.1 g/dL
ouchterlony test	satisfactory
plating efficiency	pass
sterility	no microbial growth detected
growth promotion/cytotoxicity	pass
virus antibody test BRSV	< 1:2
virus antibody test BVD	1:8
virus antibody test IBR	< 1:2
virus antibody test PI3	< 1:2

### Product Chemical Analysis:

<u>Chemical/Biochemical</u>	<u>Concentration</u>
sodium	132 mEq/L
potassium	> 10.0 mEq/L
calcium	12.2 mg/dL
phosphorous	9.6 mg/dL
glucose	88 mg/dL
creatinine	2.5 mg/dL
total bilirubin	0.1 mg/dL
cholesterol	31 mg/dL
serum glutamyl oxalactate transaminase	59 IU/L
serum glutamic pyruvic transaminase	9 IU/L

### Note:

This product was gamma-irradiated at 25 ~ 35 kGy as part of a validated process for the inactivation of biological extraneous agents. This product remained in a frozen state at the time of irradiation and during the transportation process.

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## Tet System Approved FBS, US-Sourced

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631101

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