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

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

**LOT NUMBER:** A28012-7006

**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 yellow-amber
Endotoxin	< 10.0 EU/ml
Hemoglobin	≤ 20.0 mg/dL
IgG	< 250 mg/L
<i>Mycoplasma</i>	Not detected
Adventitious Virus:	Not detected
BVD, REO, Parvo, Rabies, Blue Tongue, BRSV, Adeno 3, Adeno 5, HA, CPE	
BVD Antibody	1:3
PI-3 Antibody	< 1:2
IBR Antibody	< 1:2
BRSV Antibody	< 1:2
pH	6.80 - 8.20
Osmolality	280 - 340 mOsm/Kg
Serum Identity	Bovine
Total Protein	30 - 45 g/L
Electrophoretic Pattern	Normal
Albumin	21.1 g/L
Globulin	16.9 g/L
Specific Gravity	≥ 1.010 g/mL
Cell Toxicity	None
Plating Efficiency & Population	Pass
Sterility	No evidence of microbial growth
Growth Promotion	≥ 75% of in-house control

**Product Chemical Analysis:**

<u>Chemical/Biochemical</u>	<u>Concentration</u>
Sodium	142 mmol/L
Potassium	9.5 mmol/L
Calcium	3.57 mmol/L
Phosphorous	2.8 mmol/L
Chloride	99 mmol/L
Glucose	4.7 mmol/L
Urea	5.6 mmol/L
Creatinine	249 µmol/L
Uric acid	126 µmol/L
Bilirubin	2.0 µmol/L
LDH	498 U/L
Cholesterol	0.9 mmol/L
ALP	270 U/L
ALT	5 U/L
AST	25 U/L
GGT	5 U/L
Triglyceride	0.60 mmol/L

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