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# **CERTIFICATE OF ANALYSIS**

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**FETAL BOVINE SERUM**



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**Catalog # F31016-500 / F11713-500**

**Lot # TBD**


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**COLORADO • USA • 970-617-9863**

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# FETAL BOVINE SERUM

## ORIGIN

Product Information 	
<b>Material Description:</b>	Fetal Bovine Serum
<b>Lot Number:</b>	TBD at Time of Manufacture
<b>Catalog Number:</b>	F31016-500 / F11713-500
<b>Country of Raw Material Origin:</b>	TBD
<b>Country of Final Manufacturing:</b>	United States
<b>Date of Manufacture:</b>	Assigned on Manufacturing Date
<b>Expiration Date:</b>	5 Years from Date of Manufacture
<b>Storage:</b>	$\leq -10^{\circ}\text{C}$
<b>Appearance:</b>	Clear straw to amber liquid
<b>Filtration:</b>	Triple 0.1 $\mu\text{m}$ membrane filtered

# FETAL BOVINE SERUM

ORIGIN

CAT # F31016-500 / F11713-500 • LOT # TBD



## Chemical Parameters



Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	337
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	7
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	38
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	14.5
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	32.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	100.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.9
GGT	Chemistry Analyzer	IU/L	As Reported	4
Glucose	Chemistry Analyzer	mg/dL	As Reported	59
Hemoglobin	USP <90>	mg/dL	As Reported	10.50
IgG	ELISA	mg/L	As Reported	133.2
Iron	Chemistry Analyzer	µg/dL	As Reported	162.0
LDH	Chemistry Analyzer	IU/L	As Reported	510
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.8
Osmolality	Osmometer	mOsm/kg H2O	As Reported	316
pH	pH Meter		As Reported	7.1
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	8.4
Potassium	Chemistry Analyzer	mEq/L	As Reported	9.5
Sodium	Chemistry Analyzer	mEq/L	As Reported	139
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.6
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	52
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	17
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.3

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## Microbiological Parameters



Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	< 0.200
Mycoplasma	PCR		As Reported	Not Detected
Sterility				
Bacteria	9CFR 113.26		No Growth	No Growth
Fungi	9CFR 113.26		No Growth	No Growth

## Antibiotics/Antimycotics



Test	Unit of Measure	Specification	Results
Tetracycline	ng/mL	As Reported	<1.00

## Viral Testing



Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Bovine Adeno 1	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Bovine Adeno 3	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Bovine Adeno 5	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BPV	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BRSV	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BVD, Cytopathic	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BVD, Non-Cytopathic	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Cytopathic (IBR)	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Hemadsorbing (PI3)	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Rabies	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
REO Virus	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected

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## Protein Electrophoresis



Test	Unit of Measure	Specification	Results
Albumin	g/dL	As Reported	1.60
Alpha Globulins	g/dL	As Reported	1.60
Beta Globulins	g/dL	As Reported	0.40
Gamma Globulins	g/dL	As Reported	0.10

## Hormone Panel



Test	Unit of Measure	Specification	Results
Cortisol	µg/dL	As Reported	<0.20
Insulin	µIU/mL	As Reported	7.66
Progesterone	ng/mL	As Reported	<0.06
T3	ng/dL	As Reported	78.9
T4	µg/dL	As Reported	13.3
Testosterone	ng/dL	As Reported	0.01

## Biological Performance



Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	As Reported	95.6
Cell Type: MRC-5 Day 5	%	As Reported	104.9
Cell Type: CHO K1 Day 3	%	As Reported	101.8
Relative Colony Forming Efficiency	%	As Reported	91.4
Absolute Colony Forming Efficiency	%	As Reported	67.5
Relative Cloning Efficiency	%	As Reported	106.9
Absolute Cloning Efficiency	%	As Reported	56.8

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# CERTIFICATE OF ORIGIN

## FETAL BOVINE SERUM

**Cat # F31016-50, F11713-500**

**Lot No# TBD**

**Expiration Date: TBD**

The Fetal Bovine Serum was obtained from blood that was collected ethically from fetuses whose dams were born in (Country), passed ante-and post-mortem veterinary inspection at a government-approved facility, and are found free of contagious disease.

This product was imported to the United States under an official USDA-APHIS issued import permit, passed quarantine within USDA-APHIS certified/audited facility and processed in an ISO 9001:2015 and ISO 13485:2016 certified US facilities.

This product was collected, sterile filtered and final processed in the United States under the strict guidelines of cGMP standards, adhering to the highest industry and global standards. The product is fully traceable and documented from Raw materials to final filtration, labeling, validated storage and distribution.

This product is not for human or animal consumption, intended for further manufacturing and research purposes only.

SeraPrime reserves the right to change test methods, specifications, and/or cell lines used in growth promotion tests without providing advance notice. Results are believed to be accurate but have not been verified by SeraPrime.

SeraPrime relies on the integrity of 3rd party testing facilities and conducts periodic reviews of those facilities. Such reviews provide SeraPrime with sufficient confidence in the facilities level of compliance.

Date and information contained in this document are considered confidential and are not to be released to 3rd parties without the written consent of SeraPrime, LLC.

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Approved by/Date

**SeraPrime.com**

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