SeraPrime®

CERTIFICATE OF ANALYSIS

USDA APPROVED FETAL BOVINE SERUM

MANUFACTURED IN ISO CERTIFIED FACILITIES
ISO 9001 2015 REGISTERED

MANUFACTURED IN ISO CERTIFIED FACILITIES
ISO 13485 2016 REGISTERED

Catalog # F31016-500
Lot # 24CR330

COLORADO • USA • 970-617-9863

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FETAL BOVINE SERUM

USDA APPROVED

Product Information	
Material Description:	Fetal Bovine Serum
Lot Number:	24CR330
Catalog Number:	F31016-50, F31016-100, F31016-500
Country of Raw Material Origin:	Costa Rica
Country of Final Manufacturing:	United States
Date of Manufacture:	November, 2024
Expiration Date:	November, 2029
Storage:	≤ -10°C
Appearance:	Clear straw to amber liquid
Filtration:	Triple 0.1 µm membrane filtered

FETAL BOVINE SERUM

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CAT # F31016-50, F31016-100, F31016-500 • LOT # 24CR330

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Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	284
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	10
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	57
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.8
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	34.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	97.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.8
GGT	Chemistry Analyzer	IU/L	As Reported	4.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	72.0
Hemoglobin	USP <90>	mg/dL	As Reported	25.4
IgG	ELISA	mg/L	As Reported	136.7
Iron	Chemistry Analyzer	µg/dL	As Reported	161.0
LDH	Chemistry Analyzer	IU/L	As Reported	548.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.6
Osmolality	Osmometer	mOsm/kg H2O	As Reported	311
pH	pH Meter		As Reported	7.3
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	8.9
Potassium	Chemistry Analyzer	mEq/L	As Reported	12.2
Sodium	Chemistry Analyzer	mEq/L	As Reported	136
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.9
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	76
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	18
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.8

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Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	>25.0
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 / Tet-Approved

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	1.8
Alpha Globulins	g/dL	As Reported	1.8
Beta Globulins	g/dL	As Reported	0.2
Gamma Globulins	g/dL	As Reported	0.0

Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	µg/dL	As Reported	0.231
Insulin	µIU/mL	As Reported	7.26
Progesterone	ng/mL	As Reported	<0.06
T3	ng/dL	As Reported	127.0
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	112.5
Cell Type: MRC-5 Day 5	%	As Reported	88.9
Cell Type: CHO K1 Day 3	%	As Reported	134.6
Relative Colony Forming Efficiency	%	As Reported	99.0
Absolute Colony Forming Efficiency	%	As Reported	69.2
Relative Cloning Efficiency	%	As Reported	102.0
Absolute Cloning Efficiency	%	As Reported	54.2

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CERTIFICATE OF ORIGIN

USDA APPROVED FETAL BOVINE SERUM

Cat # F31016-50, F31016-100, F31016-500
Lot No# 24CR330
Expiration Date: November 2029

The Fetal Bovine Serum was obtained from blood that was collected ethically from fetuses whose dams were born in Costa Rica 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 (Certificate Number 22903, valid until May 4, 2027) and ISO 13485:2016 (Certificate Number 21665, valid until January 28, 2025) certified US facility.

This product was 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.



January 15, 2025

Approved by/Date