

# CERTIFICATE OF ANALYSIS

## FETAL BOVINE SERUM

Optima

**Lot No: E17075**

**Catalog No:** S 12495 (50 ml size)  
 S 12410 (100 ml size)  
 S 12450 (500 ml size)

*triple 0.1 μm filter processed serum*

**Expiration Date:** May 2022

**Store Frozen at:** -5°C to -20°C

**Notice:** We collect and process our serum rapidly at cold temperatures to yield the highest quality serum with excellent cell growth properties. This cold processing leaves some fibrinogen in the serum which may convert to fibrin upon storage, thawing, or heat-inactivation. Fibrin can cause the serum to look slightly turbid or may be visible as a flocculent material. This material does not adversely affect the growth performance characteristics of the serum.

TEST	SPECIFICATION	RESULT
Bacterial and Fungal Testing (U.S.P. Atlanta Biologicals Modified)	NOT DETECTED	NOT DETECTED
Mycoplasma Testing (Large Volume Barile Method)	NOT DETECTED	NOT DETECTED
Mycoplasma Testing, Supplemental (DNA Fluorochrome Stain)	NOT DETECTED	NOT DETECTED
Virus Testing (Full 9CFR)		
BVDV - Fluorescent Antibody	TEST	TESTED
Cytopathogenic Agents- e.g. IBRV	NOT DETECTED	NOT DETECTED
Hemadsorbing Agents - e.g. PI-3V	NOT DETECTED	NOT DETECTED
BTV	NOT DETECTED	NOT DETECTED
BRSV	NOT DETECTED	NOT DETECTED
Bovine Parvo	NOT DETECTED	NOT DETECTED
Bovine Adeno 1	NOT DETECTED	NOT DETECTED
Bovine Adeno 5	NOT DETECTED	NOT DETECTED
Reo Virus	NOT DETECTED	NOT DETECTED
Rabies Virus	NOT DETECTED	NOT DETECTED
Cell Culture Testing	PASS	PASS
pH	6.8 - 7.8	7.3
Osmolality (Vapor Pressure)	280 - 335 mOsm	305.5 mOsm
Endotoxin (Limulus Amebocyte Lysate Gel Clot)	≤ 20.0 EU/ml	< 0.06 EU/ml
Hemoglobin (Spectrophotometric)	≤ 25 mg/dl	14.9 mg/dl

*This product is manufactured for research and development purposes only. It is not intended for any human or animal diagnostic, therapeutic or other clinical uses. It is also not for agricultural, food, drug, cosmetic or household use. The use of these products must be supervised by a person technically qualified to handle potentially hazardous material.*

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BIOCHEMICAL PROFILE	SPECIFICATION	RESULT
Total Protein	3.0 to 4.6 g/dl	3.6 g/dl
Albumin	check and record	2.2 g/dl
Globulin	check and record	1.4 g/dl
A/G ratio	check and record	1.6
IgG	check and record	< 10.0 mg/dl
ALT/SGPT	check and record	9.0 IU/l
Alkaline Phosphatase	check and record	193.0 IU/l
Total Bilirubin	check and record	0.20 mg/dl
Iron	check and record	180.0 µg/dl
UIBC	check and record	69.0 µg/dl
Cholesterol	check and record	34.0 mg/dl
Triglycerides	check and record	65.0 mg/dl
Glucose	check and record	104.0 mg/dl
Blood Urea Nitrogen (BUN)	check and record	15.0 mg/dl
Creatinine	check and record	2.5 mg/dl
BUN/Creatinine Ratio	check and record	6.0
Uric Acid	check and record	2.5 mg/dl
Sodium	check and record	137.0 meq/l
Potassium	check and record	11.9 meq/l
Sodium/Potassium Ratio	check and record	11.5
Chloride	check and record	101.0 meq/l
Calcium	check and record	13.0 mg/dl
Phosphorus	check and record	9.8 mg/dl
Magnesium	check and record	3.2 mg/dl
Bicarbonate	check and record	18.0 mmol/l

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products for all your **cell culture** needs

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The Fetal Bovine Serum used in manufacturing the product stated above is certified by the manufacturer as meeting all of the U.S.D.A requirements for donor animal health, country of origin, and traceability of the product.

**Origin:** The fetal bovine serum used in the production of this lot was collected in U.S.D.A. inspected slaughterhouses in the USA.

**Donor Animals:** All fetal blood was collected from fetuses derived from healthy animals. The donor dams have passed both ante- and post-mortem certified USDA veterinary inspections before collection of the fetal blood.

**Traceability:** All of the fetal bovine serum is traceable back to the date and location of collection.

*Signature On File*

Quality Control Department

*July 12, 2017*

Date

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**Address:** 4172 Industry Way  
Flowery Branch, GA 30542

**Phone:** (800) 780-7788  
(770) 446-3336

**Fax:** (800) 780-7374  
(770) 446-3332