

# CERTIFICATE OF ANALYSIS

## FETAL BOVINE SERUM

Premium Select

**Lot No: D17051**

**Catalog No:** S 11595 (50 ml size)  
 S 11510 (100 ml size)  
 S 11550 (500 ml size)

*triple 0.1 µm filter processed serum*

**Expiration Date:** April 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	306.3 mOsm
Endotoxin (Limulus Amebocyte Lysate Gel Clot)	≤ 15.0 EU/ml	2.4 EU/ml
Hemoglobin (Spectrophotometric)	≤ 15 mg/dl	9.3 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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HORMONE PROFILE	SPECIFICATION	RESULT
17-β-Estradiol	<i>check and record</i>	25.1 pg/ml
Insulin	<i>check and record</i>	8.2 μIU/ml
Progesterone	<i>check and record</i>	< 0.16 nmol/L
Testosterone	<i>check and record</i>	< 10.0 ng/dl
Thyroxine (T4) - total	<i>check and record</i>	184.0 nmol/L

BIOCHEMICAL PROFILE	SPECIFICATION	RESULT
Total Protein	3.0 to 4.6 g/dl	3.5 g/dl
Albumin	<i>check and record</i>	2.2 g/dl
Globulin	<i>check and record</i>	1.3 g/dl
A/G ratio	<i>check and record</i>	1.7
IgG	<i>check and record</i>	10.0 mg/dl
ALT/SGPT	<i>check and record</i>	8.0 IU/l
Alkaline Phosphatase	<i>check and record</i>	305.0 IU/l
Total Bilirubin	<i>check and record</i>	0.10 mg/dl
Iron	<i>check and record</i>	165.0 μg/dl
UIBC	<i>check and record</i>	76.0 μg/dl
Cholesterol	<i>check and record</i>	34.0 mg/dl
Triglycerides	<i>check and record</i>	63.0 mg/dl
Glucose	<i>check and record</i>	58.0 mg/dl
Blood Urea Nitrogen (BUN)	<i>check and record</i>	18.0 mg/dl
Creatinine	<i>check and record</i>	2.6 mg/dl
BUN/Creatinine Ratio	<i>check and record</i>	7.0
Uric Acid	<i>check and record</i>	1.6 mg/dl
Sodium	<i>check and record</i>	139.0 meq/l
Potassium	<i>check and record</i>	9.9 meq/l
Sodium/Potassium Ratio	<i>check and record</i>	14.0
Chloride	<i>check and record</i>	104.0 meq/l
Calcium	<i>check and record</i>	12.9 mg/dl
Phosphorus	<i>check and record</i>	9.3 mg/dl
Magnesium	<i>check and record</i>	3.1 mg/dl
Bicarbonate	<i>check and record</i>	17.0 mmol/l

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The Fetal Bovine Serum used in Atlanta Biologicals' manufacturing process is certified 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 is collected in U.S.D.A. approved slaughterhouses or in countries certified by the U.S.D.A. to be free of Foot and Mouth Disease (FMD), Bovine Spongiform Encephalopathy (BSE) and other exotic disease agents. All imported serum used for manufacturing purposes is tested and approved by the U.S.D.A. for distribution in the United States.

**Donor Animals:** All fetal blood is collected from fetuses derived from healthy animals. The donor dams must pass both ante- and post-mortem certified 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

*May 30, 2017*

Date

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