



**CERTIFICATE OF ANALYSIS**  
**Foundation™ Fetal Bovine Serum**  
**(Catalog Number 900-108)**

Lot Number: A423014

**Date of Manufacture:** Dec2022

**Product Expiry:** Dec2027

**Origin:** Panama

**Storage Temperature:** ≤ -10°C

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

**Product Description:** Foundation™ Fetal Bovine Serum is sterile-filtered through a 0.1 µm filter prior to freezing.

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Endotoxin	LAL	<50.0 EU/mL	16.4 EU/mL
Hemoglobin	USP <90>	<40.0 mg/dL	14.7 mg/dL
<b>Microbiological Testing</b>			
Sterility	9CFR 113.26		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	PCR	Not Detected	Not Detected
<b>Viral Testing</b>			
	9CFR113.53c[113.46,113.47]		
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Non-Reactive	Non-Reactive
Extraneous Viruses (FAb)		Not Detected	Not Detected
Bluetongue Virus		Not Detected	Not Detected
Bovine Adenovirus		Not Detected	Not Detected
Bovine Parvovirus		Not Detected	Not Detected
Bovine Viral Diarrhea (Cytopathic)		Not Detected	Not Detected
Bovine Respiratory Syncytial Virus		Not Detected	Not Detected
Rabies Virus		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
<b>Physical Testing</b>			
Electrophoretic Pattern		Normal	Normal
Osmolality		260 – 350 mOsm/kg	321.0 mOsm/kg
pH@RT		6.5 – 8.5	7.3
<b>Biochemistry</b>			
Albumin		Test and Report	1.7 g/dL
Alkaline Phosphatase	Chemistry Analyzer	Test and Report	366 IU/L
ALT (SGPT)	Chemistry Analyzer	Test and Report	12 IU/L
AST (SGOT)	Chemistry Analyzer	Test and Report	43 IU/L
GGT	Chemistry Analyzer	<10 U/L	5.0 IU/L



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Bilirubin, Total	Chemistry Analyzer	Test and Report	0.1mg/dL
BUN	Chemistry Analyzer	Test and Report	18.0 mg/dL
Calcium	Chemistry Analyzer	Test and Report	14.4 mg/dL
Chloride	Chemistry Analyzer	Test and Report	102.0 mEq/L
Cholesterol	Chemistry Analyzer	Test and Report	29.0 mg/dL
Cortisol		Test and Report	< 0.2 µg/dL
Creatinine	Chemistry Analyzer	Test and Report	2.8 mg/dL
Glucose	Chemistry Analyzer	Test and Report	54.0 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.1287 mg/mL
Insulin		Test and Report	9.880 uIU/mL
Iron, Serum	Chemistry Analyzer	Test and Report	152.0 µg/dL
Phosphorus	Chemistry Analyzer	Test and Report	8.5 mg/dL
Potassium	Chemistry Analyzer	Test and Report	10.8 mEq/L
Progesterone		Test and Report	< 0.06 ng/mL
Protein, Total	Chemistry Analyzer	2.5 – 6.0 g/dL	3.6 g/dL
Sodium	Chemistry Analyzer	Test and Report	139.0 mEq/L
Testosterone		Test and Report	0.010 ng/mL
T3		Test and Report	80.5 ng/dL
T4		Test and Report	12.7 µg/dL
Triglycerides	Chemistry Analyzer	Test and Report	59.0 mg/dL
Uric Acid	Chemistry Analyzer	Test and Report	1.2 mg/dL

Our fetal bovine serum meets all USDA requirements and has passed ante and post-mortem inspection by a licensed veterinarian. It is collected in countries recognized as being free of foot-and-mouth disease and rinderpest. The origin of all fetal bovine serum is traceable by lot number, date, and country of collection. Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance. \*Some geographic regions may test higher than 0.300 mg/mL. If this be the case, refer to GGT results less than 10 U/L to ensure FBS purity.

The testing that has been performed as part of this lot release has been reviewed by Quality Assurance personnel and has confirmed that the testing meets the specifications presented on this Certificate of Analysis.

Korrina Nicewonger  
Name

27JUL2023  
Date

QC Associate II  
Title