



**CERTIFICATE OF ANALYSIS**  
**BenchMark™ Fetal Bovine Serum**  
**(Catalog Number 100-106)**

Lot Number: A325004

Date of Manufacture: May2025

Product Expiry: May2030

Origin: Nicaragua

Storage Temperature: ≤ -10°C

For cell culture, further manufacturing or research use only. Not for direct therapeutic use.

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

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Endotoxin	USP <85> & EP 2.6.14	<10.0 EU/mL	<0.1 EU/mL
Hemoglobin	USP <90>	<20.0 mg/dL	9.303 mg/dL
<b>Microbiological Testing</b>			
Sterility	USP <71>		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile and Kern & Hoechst Fluorochrome Stain	Not Detected	Not Detected
<b>Viral Testing</b>			
	9CFR 113.53c [113.46, 113.47]		
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Not Detected	Not Detected
Extraneous Viruses (FAB)			
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	Cellulose Acetate Electrophoresis	Normal	Normal
Osmolality	USP <785> & EP 2.2.35	260 – 350 mOsm/kg	303 mOsm/kg
pH	USP <791> & EP 2.2.3	6.5 – 8.5	7.18
<b>Biochemistry Testing</b>			
Albumin		Test and Report	2.2 g/dL
Alkaline Phosphatase		Test and Report	277 IU/L
ALT (SGPT)		Test and Report	5 IU/L
AST (SGOT)		Test and Report	43 IU/L
GGT	Chemistry Analyzer	<10 U/L	5 IU/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	19 mg/dL



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Calcium	ELISA	Test and Report	13.4 mg/dL
Chloride		Test and Report	101 mmol/L
Cholesterol		Test and Report	30 mg/dL
Cortisol		Test and Report	<0.20 µg/dL
Creatinine		Test and Report	2.9 mg/dL
Glucose		Test and Report	66 mg/dL
IgG		<0.300 mg/mL*	0.1105 mg/mL
Insulin		Test and Report	8.13 µIU/mL
Iron, Serum		Test and Report	178 µg/dL
Phosphorus		Test and Report	9.3 mg/dL
Potassium		Test and Report	10.8 mmol/L
Progesterone		Test and Report	<0.1 ng/mL
Protein, Total		2.5 – 6.0 g/dL	3.6 g/dL
Sodium		Test and Report	140 mmol/L
Testosterone	USP <1057> & EP 2.5.33	Test and Report	<0.01 ng/mL
T3		Test and Report	87.8 ng/dL
T4		Test and Report	18.0 µg/dL
Triglycerides		Test and Report	61 mg/dL
Uric Acid		Test and Report	0.8 mg/dL

Our fetal bovine serum meets all USDA requirements and has passed ante and post-mortem inspection. 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.

Levi Immoos  
Name

29JUL2025  
Date

QC Associate I  
Title