



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

Lot Number: A325000-R2

Date of Manufacture: Jul2025

Product Expiry: Feb2030

Origin: Honduras

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
Biological Testing			
Endotoxin**	USP<85> & EP 2.6.14	<10.0 EU/mL	<0.1 EU/mL
Hemoglobin	USP <90>	<20.0 mg/dL	4.87 mg/dL
Microbiological Testing			
Sterility**	USP<71>		
Bacteria		No Growth	
Fungi		No Growth	
Mycoplasma	Barile and Kern & Hoechst Fluorochrome Stain	Not Detected	Not Detected
Viral Testing			
	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
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate Electrophoresis	Normal	Normal
Osmolality	USP<785> & EP 2.2.35	260 – 350 mOsm/kg	312 mOsm/kg
pH	USP<791> & EP 2.2.3	6.5 – 8.5	7.27
Biochemistry Testing			
Albumin		Test and Report	2.1 g/dL
Alkaline Phosphatase		Test and Report	260 U/L
ALT (SGPT)		Test and Report	3 U/L
AST (SGOT)		Test and Report	25 U/L
GGT	Chemistry Analyzer	<10 U/L	6 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	22 mg/dL



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Calcium		Test and Report	13.7 mg/dL
Chloride		Test and Report	97 mmol/L
Cholesterol		Test and Report	32 mg/dL
Cortisol		Test and Report	0.287 µg/dL
Creatinine		Test and Report	2.6 mg/dL
Glucose		Test and Report	76 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.1137 mg/mL
Insulin		Test and Report	9.92 µU/mL
Iron, Serum		Test and Report	147 µg/dL
Phosphorus		Test and Report	9.5 mg/dL
Potassium		Test and Report	9.3 mmol/L
Progesterone		Test and Report	<0.1 ng/mL
Protein, Total	USP <1057> & EP 2.5.33	2.5 – 6.0 g/dL	3.7 g/dL
Sodium		Test and Report	134 mmol/L
Testosterone		Test and Report	0.01 ng/mL
T3		Test and Report	101.0 ng/dL
T4		Test and Report	17.6 µg/dL
Triglycerides		Test and Report	66 mg/dL
Uric Acid		Test and Report	1.9 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.

**Testing was performed after redispense to confirm test result meets final product specification. The test result reported is obtained from parent lot (prior to redispense).

Jeorgueline Wilson
Name
QA Specialist
Title

18 AUG 2025
Date