

# **CERTIFICATE OF ANALYSIS**

### BenchMark™ Fetal Bovine Serum

(Catalog Number 100-106)

Lot Number: A424034

Date of Manufacture: JAN2024 Product Expiry: JAN2029

Origin: Mexico 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	10.02 mg/dL
Microbiological Testing			
Sterility			
Bacteria	USP <71> & EP 2.6.1	No Growth	No Growth
Fungi	USP <71> & EP 2.6.1	No Growth	No Growth
Mycoplasma	Barile and Kern &	Not Detected	Not Detected
	Hoechst Fluorochrome Stain		
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
<b>Bovine Parvovirus</b>		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
Reo <mark>virus</mark>		Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate Electrophoresis	Normal	Normal
Osmolality	USP <785> & EP 2.2.35	260 - 350 mOsm/ kg	318 mOsm/ kg
рН	USP <791> & EP 2.2.3	6.5 - 8.5	7.33
Biochemistry			
Albumin		Test and Report	1.9 g/dL
Alkaline Phosphatase		Test and Report	226 IU/L
ALT (SGPT)		Test and Report	6 IU/L
AST (SGOT)		Test and Report	21 IU/L
GGT	Chemistry Analyzer	<10 U/L	4 IU/L



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Test	Methodology	Specification	Analysis
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		<b>Test and Report</b>	16 mg/dL
Calcium		Test and Report	12.4 mg/dL
Chloride		<b>Test and Report</b>	93 mmol/L
Cholesterol		Test and Report	27 mg/dL
Cortisol		Test and Report	0.561 µg/dL
Creatinine		<b>Test and Report</b>	2.9 mg/dL
Glucose		<b>Test and Report</b>	95 mg/dL
lgG	ELISA	<0.300 mg/mL*	0.2256 mg/ml
Insulin		Test and Report	5.67 μIU/mL
Iron, Serum		Test and Report	167 μg/dL
Phosphorus		Test and Report	8.9 mg/dL
Potassium		Test and Report	10.9 mmol/L
Progesterone		Test and Report	<0.1 ng/mL
Protein, Total	USP <1057> & EP 2.5.33	2.5 - 6.0 g/dL	3.4 g/dL
Sodium		Test and Report	130 mmol/L
Testosterone		Test and Report	0.01 ng/mL
T3		Test and Report	132 ng/dL
T4		Test and Report	13.0 μg/dL
Triglycerides		Test and Report	61 mg/dL
Uric Acid		Test and Report	3.6 mg/dL

Our fetal bovine serum meets all USDA requirements and has passed ante and post-mortem. 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	22 MAY2024
Name	Date
QA Associate 11	
Title	