

# **CERTIFICATE OF ANALYSIS**

## BenchMark™ Fetal Bovine Serum

(Catalog Number 100-106)

Lot Number: A424030

Date of Manufacture: APR2023

**Product Expiry:** APR2028

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		<10.0 EU/mL	0.62 EU/mL
Hemoglobin		<20.0 mg/dL	3 mg/dL
Microbiological Testing			
Sterility			
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
viycoplasma		Not Detected	Not Detected
/iral 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
Rabie <mark>s V</mark> irus		Not Detected	Not Detected
Reo <mark>virus</mark>		Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern		Normal	Normal
Osmolality		260 - 350 mOsm/ kg	319 mOsm/kg
Н		6.5 - 8.5	7.23
Biochemistry			
Albumin		Test and Report	2.4 g /dL
Alkaline Phosphatase		Test and Report	237 U/L
ALT (SGPT)		Test and Report	4 U/L
AST (SGOT)		Test and Report	18 U/L
GGT		<10 U/L	7 U/L



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Test	Methodology	Specification	Analysis
Bilirubin, Total		Test and Report	0.1 mg/dL
BUN		<b>Test and Report</b>	15 mg/dL
Calcium		<b>Test and Report</b>	13.9 mg/dL
Chloride		Test and Report	104 mmol/L
Cholesterol		<b>Test and Report</b>	31 mg/dL
Cortisol		Test and Report	0.717 μg/dL
Creatinine		<b>Test and Report</b>	2.60 mg/dL
Glucose		<b>Test and Report</b>	116 mg/dL
lgG		<0.300 mg/mL*	0.4 mg/mL*
Insulin		<b>Test and Report</b>	8.44 μlU/mL
Iron, Serum		<b>Test and Report</b>	202 μg/dL
Phosphorus		<b>Test and Report</b>	10.1 mg/dL
Potassium		Test and Report	13.8 mmol/l
Progesterone		<b>Test and Report</b>	<0.06 ng/ml
Protein, Total		2.5 - 6.0 g/dL	3.5 g/dL
Sodium		Test and Report	146 mmol/L
Testosterone		Test and Report	<0.01 ng/ml
Т3		Test and Report	198 ng/dL
T4		Test and Report	13.8 µg/dL
Triglycerides		Test and Report	70 mg/dL
Uric Acid		Test and Report	2.6 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.

Korrina Nicewonger	14MAY2024	
Name	Date	
QA Associate II		
Title		