

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

Lot Number: A121031

Date of Manufacture: JUN2021

Product Expiry: JUN2026

Origin: Panama

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	1.49 EU/mL
Hemoglobin	USP <90>	<20.0 mg/dL	10.6 mg/dL
Microbiological Testing			
Sterility	9CFR 113.26		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	PCR	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	Normal	Normal
Osmolality		260 - 350 mOsm/ kg	305 mOsm/kg
pH		6.5 – 8.5	7.4



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Test Methodology	Specification	Analysis
Biochemistry		
Albumin	Test and Report	1.80 g/dL
Alkaline Phosphatase	Test and Report	415.0 IU/L
ALT (SGPT)	Test and Report	9.0 IU/L
AST (SGOT)	Test and Report	34.0 IU/L
GGT	<10 U/L	6.0 IU/L
Bilirubin, Total	Test and Report	0.1 mg/dL
BUN	Test and Report	17.0 mg/dL
Calcium	Test and Report	11.4 mg/dL
Chloride	Test and Report	97.0 mEq/L
Cholesterol	Test and Report	34.0 mg/dL
Cortisol	Test and Report	0.280 μg/dL
Creatinine	Test and Report	3.1 mg/dL
Glucose	Test and Report	51.0 mg/dL
IgG ELISA	<0.300 mg/mL*	<0.083 mg/mL
Insulin	Test and Report	4.70 μIU/mL
Iron, Serum	Test and Report	162.0 μg/dL
Phosphorus	Test and Report	8.8 mg/dL
Potassium	Test and Report	10.4 mEq/L
Progesterone	Test and Report	<0.06 ng/mL
Protein, Total	2.5 – 6.0 g/dL	3.7 g/dL
Sodium	Test and Report	138.0 mEq/L
Testosterone	Test and Report	<0.01 ng/mL
T3	Test and Report	81.7 ng/dL
T4	Test and Report	13.9 μg/dL
Triglycerides	Test and Report	60.0 mg/dL
Tetracycline Tetracycline Tetracycline Tetracycline	<4 ng/mL	<1.0 ng/mL
Uric Acid	Test and Report	1.3 mg/dL



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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.

Name

22 MAR 2022

Date

Title