

## **CERTIFICATE OF ANALYSIS**

## BenchMark™ Fetal Bovine Serum

(Catalog Number 100-106)

Lot Number: A122062

Date of Manufacture: NOV2022 Product Expiry: NOV2027

Origin: Mexico Storage Temperature: ≤ -10°C

For Cell Culture, further Manufacturing or Research use only. Not for direct Therapeutic use.

**Product description:** BenchMark<sup>™</sup> Fetal Bovine Serum is sterile-filtered through a 0.1 μm filter prior to freezing.

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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	11.04 mg/dL
Microbiological Testing			
Sterility	USP<71>, EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile and Kern & Hoechst Fluorochrome Stain	Not Detected	Not Detected
Minel Techine			
Viral Testing Cytopathic Agents	9CFR 113.53c [113.46, 113.47]	Alex Detected	Alex Parkers d
Hemadsorbing Agents		Not Detected	Not Detected
Extraneous Viruses (FAb)		Not Detected	Not Detected
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Bluetongue Virus		Not Detected	Not Detected
Bovine Adenovirus		Not Detected	Not Detected
Bovine Parvovirus		Not Detected	Not Detected
Bovine Viral Diarrhea (Cytopathic) Bovine Respiratory Syncytial Virus		Not Detected	Not Detected
Rabies Virus	y Syncytiai Virus	Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
Keovirus		Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate Electrophoresis	Normal	Normal
Osmolality	USP<785>, EP 2.2.35	260 - 350 mOsm/kg	302 mOsm/kg
рН	USP<791>, EP 2.2.3	6.5 – 8.5	7.21
Biochemistry			
Albumin		Test and Report	2.2 g/dL
Alkaline Phosphatase		Test and Report	266 IU/L
ALT (SGPT)		Test and Report	5 IU/L
AST (SGOT)		Test and Report	27 IU/L
GGT	Chemistry Analyzer	<10 U/L	5 IU/L
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Test	Methodology	Specification	Analysis
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	17 mg/dL
Calcium		Test and Report	13.4 mg/dL
Chloride		Test and Report	100 mmol/L
Cholesterol		Test and Report	30 mg/dL
Cortisol		Test and Report	0.332 μg/dL
Creatinine		Test and Report	2.9 mg/dL
Glucose		Test and Report	94 mg/dL
lgG	ELISA	<0.300 mg/mL*	0.1548 mg/ml
Insulin		Test and Report	9.53 μIU/mL
Iron, Serum		Test and Report	174 μg/dL
Phosphorus		Test and Report	9.2 mg/dL
Potassium		Test and Report	12.1 mmol/L
Progesterone		Test and Report	<0.1 ng/mL
Protein, Total	USP<1057>, EP 2.5.33	2.5 – 6.0 g/dL	3.6 g/dL
Sodium		Test and Report	139 mmol/L
Testosterone		Test and Report	<0.01 ng/mL
T3		Test and Report	113 ng/dL
T4		Test and Report	24.0 μg/dL
Triglycerides		Test and Report	63 mg/dL
Uric Acid		Test and Report	2.8 mg/dL

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.

VANESSA YOUNG	QA ASSOCIATE 11
Name	Title
06MAR2023	
Date	