

CERTIFICATE OF ANALYSIS

BenchMark™ Fetal Bovine Serum

(Catalog Number 100-106)

Lot Number: A122044

Date of Manufacture: May2022 Product Expiry: May2027

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		100C	
Endotoxin		<10.0 EU/mL	<0.250 EU/mL
Hemoglobin		<20.0 mg/dL	14.04
Microbiological Testing			
Sterility			
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma		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	318 mOsm/kg
рН		6.5 - 8.5	7.0



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Biochemistry			
Albumin		Test and Report	1.7 g/dL
Alkaline Phosphatase		Test and Report	365 IU/L
ALT (SGPT)		Test and Report	9 IU/L
AST (SGOT)		Test and Report	39 IU/L
GGT		<10 U/L	5.0 IU/L
Bilirubin, Total		Test and Report	0.1 mg/dL
BUN		Test and Report	17.0 mg/dL
Calcium		Test and Report	14.2 mg/dL
Chloride		Test and Report	101.0 mEq/L
Cholesterol		Test and Report	32.0 mg/dL
Cortisol		Test and Report	<0.20 µg/dL
Creatinine		Test and Report	2.9 mg/dL
Glucose		Test and Report	47.0 mg/dL
lgG	ELISA	<0.300 mg/mL*	72.2 mg/L
Insulin		Test and Report	7.550 uIU/mL
Iron, Serum		Test and Report	155.0 μg/dL
Phosphorus		Test and Report	8.4 mg/dL
Potassium		Test and Report	10.8 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	139.0 mEq/L
Testosterone		Test and Report	<0.01 ng/mL
T3		Test and Report	74.5 ng/dL
T4		Test and Report	14.0 μg/dL
Triglycerides		Test and Report	59.0 mg/dL
Tetracycline		<4 ng/mL	<1.0 ng/mL
Uric Acid		Test and Report	1.1 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.

VANESSA YOUNG	QA ASSOCIATE !
Name 280 41 2022	Title
Date	