



CERTIFICATE OF ANALYSIS

Tetracycline Negative Fetal Bovine Serum

(Catalog Number 100-800)

Lot Number: A423009

Date of Manufacture: Mar2022

Product Expiry: Mar2027

Origin: Nicaragua

Storage Temperature: ≤ -10°C

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

Product Description: *Tetracycline Negative Fetal Bovine Serum is sterile filtered through a 0.1 µm filter prior to freezing.*

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	LAL	<10.0 EU/mL	0.218 EU/mL
Hemoglobin	USP<90>	<20.0 mg/dL	15.05 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			
	9CFR113.53c[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		Normal	Normal
Osmolality	Osmometer	260 – 350 mOsm/Kg	304.0 mOsm/Kg
pH@RT	pH Meter	6.5 – 8.5	7.4
Biochemistry			
Albumin		Test and Report	1.7 g/dL
Alkaline Phosphatase	Chemistry Analyzer	Test and Report	377 IU/L
ALT (SGPT)	Chemistry Analyzer	Test and Report	11 IU/L
AST (SGOT)	Chemistry Analyzer	Test and Report	64 IU/L
GGT	Chemistry Analyzer	<10 U/L	3.0 IU/L



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Lot Number: A423009

Test	Methodology	Specification	Analysis
Bilirubin, Total	Chemistry Analyzer	Test and Report	0.1 mg/dL
BUN	Chemistry Analyzer	Test and Report	20.0 mg/dL
Calcium	Chemistry Analyzer	Test and Report	14.1 mg/dL
Chloride	Chemistry Analyzer	Test and Report	99.0 mEq/L
Cholesterol	Chemistry Analyzer	Test and Report	32.0 mg/dL
Cortisol		Test and Report	<0.20 ug/dL
Creatinine	Chemistry Analyzer	Test and Report	3.0 mg/dL
Glucose	Chemistry Analyzer	Test and Report	47.0 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.0672 mg/mL
Insulin		Test and Report	6.8 uIU/mL
Iron, Serum	Chemistry Analyzer	Test and Report	172.0 ug/dL
Phosphorus	Chemistry Analyzer	Test and Report	8.3 mg/dL
Potassium	Chemistry Analyzer	Test and Report	11.0 mEq/L
Progesterone		Test and Report	<0.06 ng/mL
Protein, Total	Chemistry Analyzer	2.5 – 6.0 g/dL	3.7 g/dL
Sodium	Chemistry Analyzer	Test and Report	137.0 mEq/L
Testosterone		Test and Report	<0.01 ng/mL
T3		Test and Report	66.3 ng/dL
T4		Test and Report	13.7 ug/dL
Triglycerides	Chemistry Analyzer	Test and Report	52.0 mg/dL
Tetracycline		<1 ng/mL	<1.0 ng/mL
Uric Acid	Chemistry Analyzer	Test and Report	1.1 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
Name

QA ASSOCIATE II
Title

19 MAY 2023
Date