



CERTIFICATE OF ANALYSIS

Tetracycline Negative Fetal Bovine Serum

(Catalog Number 100-800)

Lot Number: A021020

Date of Manufacture: Apr2021

Product Expiry: Apr2026

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	USP<85>, EP 2.6.14	<10.0 EU/mL	1.12 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	12.91 mg/dL
Microbiological Testing			
Sterility			
	USP<71>, EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile, MF and Kern, J (1971), EP 2.6.7	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
Bovine Viral Diarrhea Ab Titer			
Type I		Test and Report	
Type II		Test and Report	
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 Viral Diarrhea(non-cytopathic)		Test and Report	Not Detected
Bovine Syncytial Virus		Not Detected	Not Detected
Bovine Rabies Virus		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal



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Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/Kg	306 mOsm/kg
pH@RT	USP<791>	6.5 – 8.5	7.30
Biochemistry			
Albumin		Test and Report	1.8 g/dL
Alkaline Phosphatase		Test and Report	359 IU/L
ALT (SGPT)		Test and Report	9 U/L
AST (SGOT)		Test and Report	57 U/L
GGT		<10 U/L	4 IU/L
Bilirubin, Total		Test and Report	0.20 mg/dL
BUN		Test and Report	20 mg/dL
Calcium		Test and Report	14.0 mg/dL
Chloride		Test and Report	98 mEq/L
Cholesterol		Test and Report	31 mg/dL
Cortisol		Test and Report	<0.20 µg/dL
Creatinine		Test and Report	2.8 mg/dL
Glucose		Test and Report	46 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.086 mg/mL
Insulin		Test and Report	6.18 µIU/mL
Iron, Serum		Test and Report	161 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	Biuret	2.5 – 6.0 g/dL	3.80 g/dL
Sodium		Test and Report	137 mEq/L
Testosterone		Test and Report	<0.01 ng/mL
T3		Test and Report	68.7 ng/dL
T4		Test and Report	13.1 µg/dL
Triglycerides		Test and Report	51 mg/dL
Tetracycline		<1 ng/mL	<1.0 ng/mL
Uric Acid		Test and Report	0.9 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.



GeminiBio

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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.

Megha Khatasi
Name

QC Supervisor
Title

26 OCT 2021
Date