



CERTIFICATE OF ANALYSIS

Tetracycline Negative Fetal Bovine Serum **(Catalog Number 100-800)**

Lot Number: A121029

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	1.48 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	12.9 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/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		Not Detected	Not Detected
Diarrhea(cytopathic)			
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	305 mOsm/kg
pH@RT	USP<791>	6.5 – 8.5	7.4
Biochemistry			
Albumin		Test and Report	1.7 g/dL
Alkaline Phosphatase		Test and Report	336 IU/L
ALT (SGPT)		Test and Report	11.0 IU/L
AST (SGOT)		Test and Report	59.0 IU/L
GGT		<10 U/L	4.0 IU/L
Bilirubin, Total		Test and Report	0.1 mg/dL
BUN		Test and Report	18.0 mg/dL
Calcium		Test and Report	13.9 mg/dL
Chloride		Test and Report	98.0 mEq/L
Cholesterol		Test and Report	33.0 mg/dL
Cortisol		Test and Report	<0.20 µg/dL
Creatinine		Test and Report	2.9 mg/dL
Glucose		Test and Report	46.0 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.079 mg/mL
Insulin		Test and Report	6.21 uIU/mL
Iron, Serum		Test and Report	162.0 µg/dL
Phosphorus		Test and Report	8.3 mg/dL
Potassium		Test and Report	10.6 mEq/L
Progesterone		Test and Report	<0.06 ng/mL
Protein, Total	Biuret	2.5 – 6.0 g/dL	3.7 g/dL
Sodium		Test and Report	136.0 mEq/L
Testosterone		Test and Report	0.01 ng/mL
T3		Test and Report	52.3 ng/dL
T4		Test and Report	14.7 µg/dL
Triglycerides		Test and Report	51.0 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.



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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.

Karen Zuniga

Name

02 FEB 2022

Date

QA Associate I

Title