



CERTIFICATE OF ANALYSIS
Foundation CTM Fetal Bovine Serum
***Heat Inactivated**
(Catalog Number 900-308)

Lot Number: A68H00L

Date of Manufacture: OCT2020

Product Expiry: OCT2025

Origin: Mexico

Storage Temperature: ≤ -10°C

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

Product description: Foundation CTM 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	Test and Report	2.92 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	Test and Report	13.8 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	1:2
Type II		Test and Report	Undiluted
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
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/ kg	321 mOsm/kg
pH@RT	USP<791>	6.5 – 8.5	7.09



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Biochemistry

Test	Methodology	Test and Report Specification	Analysis
Albumin		Test and Report	2.3 g/dL
Alkaline Phosphatase		Test and Report	223 U/L
ALT (SGPT)		Test and Report	6 U/L
AST (SGOT)		Test and Report	33 U/L
GGT		<10 U/L	5 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	17mg/dL
Calcium		Test and Report	12.9 mg/dL
Chloride		Test and Report	99 mmol/L
Cholesterol		Test and Report	28 mg/dL
Cortisol		Test and Report	0.463 ug/dL
Creatinine		Test and Report	2.7 mg/dL
Estradiol		Test and Report	16.7 pg/mL
Glucose		Test and Report	87 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.263 mg/mL
Insulin		Test and Report	8.49 uIU/mL
Iron, Serum		Test and Report	170 ug/dL
Phosphorus		Test and Report	9.1 mg/dL
Potassium		Test and Report	>10.0 mmol/L
Progesterone		Test and Report	<0.06 ng/mL
Protein, Total	Biuret	2.5 – 6.0 g/dL	3.5 g/dL
Sodium		Test and Report	135 mmol/L
Testosterone		Test and Report	<0.01 ng/mL
T3		Test and Report	97.4 ng/dl
T4		Test and Report	14.0 ug/dL
Triglycerides		Test and Report	64 mg/dL
Tetracycline		<20 ng/mL	7.61 ng/mL
Uric Acid		Test and Report	2.3 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.



GeminiBio

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**Results shown were obtained by carefully performed methods believed to be reliable prior to heat inactivation. However, since some results may vary by methodology, it is suggested that tests for which results are particularly critical be repeated by the end user.*

Christy Francisco

QC Associate I

Name 21JAN2021

Title

Date