



CERTIFICATE OF ANALYSIS
Foundation™ Fetal Bovine Serum
(Catalog Number 900-108)

Lot Number: A61H74L

Date of Manufacture: FEB 2020

Origin: Panama

Product Expiry: FEB 2025

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

Storage Temperature: ≤ -10°C

Product description: *Foundation™ 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	<50.0 EU/mL	26.26 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	14.56 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		Non-Reactive	Not Detected
Bovine Viral Diarrhea Ab Titer		Non-Reactive	
Type I		Test and Report	< Undiluted
Type II		Test and Report	< Undiluted
Extraneous Viruses (FAb)		Not Detected	Not Detected
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



Test	Methodology	Specification	Analysis
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/kg	309 mOsm/kg
pH@RT	USP<791>	6.5 – 8.5	7.41
Biochemistry			
Albumin		Test and Report	2.0g/dL
Alkaline Phosphatase		Test and Report	363 IU/L
ALT (SGPT)		Test and Report	8 IU/L
AST (SGOT)		Test and Report	25IU/L
GGT		<10 U/L	6 IU/L
Bilirubin, Total		Test and Report	0.15 mg/dL
BUN		Test and Report	19 mg/dL
Calcium		Test and Report	14.0 mg/dL
Chloride		Test and Report	104mEq/L
Cholesterol		Test and Report	35 mg/dL
Cortisol		Test and Report	0.218 ug/dL
Creatinine		Test and Report	2.9 mg/dL
Estradiol		Test and Report	15.06 pg/mL
Glucose		Test and Report	54 mg/dL
IgG	ELISA	<0.300 mg/mL*	0.154 mg/mL
Insulin		Test and Report	5.03 uIU/L
Iron, Serum		Test and Report	154 µg/dL
Phosphorus		Test and Report	8.3 mg/dL
Potassium		Test and Report	11.1 mEq/L
Progesterone		Test and Report	<0.06 ng/mL
Protein, Total	Biuret	2.5 – 6.0 g/dL	3.75 g/dL
Sodium		Test and Report	138 mEq/L
Testosterone		Test and Report	0.01 ng/mL
T3		Test and Report	75.4 ng/dL
T4		Test and Report	13.1 ug/dL
Triglycerides		Test and Report	57 mg/dL
Tetracycline		<4 ng/mL	Pass
Uric Acid		Test and Report	1.3 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.

Megha Kholaji

Name 30 APR 2021

Date

QC Supervisor

Title