



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

Lot Number: A122051

Date of Manufacture: May2022

Product Expiry: May2027

Origin: Panama

Storage Temperature: ≤ -10°C

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

**Product description:** Foundation™ Fetal Bovine Serum is sterile-filtered through a 0.1 µm filter prior to freezing.

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Endotoxin	USP<85>, EP 2.6.14	<50.0 EU/mL	<0.250 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	14.04 mg/dL
<b>Microbiological Testing</b>			
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 9CFR113.53c[113.46,113.47]	Not Detected	Not Detected
<b>Viral Testing</b>			
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Non-Reactive	Non-Reactive
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 Respiratory Syncytial Virus		Not Detected	Not Detected
Rabies Virus		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
<b>Physical Testing</b>			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/kg	318 mOsm/kg
pH@RT	USP<791>	6.5 – 8.5	7.0
<b>Biochemistry</b>			
Albumin		Test and Report	1.7 g/dL
Alkaline Phosphatase		Test and Report	365 IU/L
ALT (SGPT)		Test and Report	9 IU/L



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AST (SGOT)		Test and Report	39 IU/L
GGT		<10 U/L	5.0 IU/L
Bilirubin, Total		Test and Report	0.1 mg/dL
BUN		Test and Report	17.0 mg/dL
Calcium		Test and Report	14.2 mg/dL
Chloride		Test and Report	101.0 mEq/L
Cholesterol		Test and Report	32.0 mg/dL
Cortisol		Test and Report	<0.20 µg/dL
Creatinine		Test and Report	2.9 mg/dL
Glucose		Test and Report	47.0 mg/dL
IgG		<0.300 mg/mL*	0.0722 mg/mL
Insulin		Test and Report	7.550 uIU/mL
Iron, Serum		Test and Report	155.0 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		2.5 – 6.0 g/dL	3.7 g/dL
Sodium		Test and Report	139.0 mEq/L
Testosterone		Test and Report	<0.01 ng/mL
T3		Test and Report	74.5 ng/dL
T4		Test and Report	14.0 µg/dL
Triglycerides		Test and Report	59.0 mg/dL
Tetracycline		<4 ng/mL	<1.0 ng/mL
Uric Acid		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.

Megha Khalayi  
Name

QA Doc. Control Supervisor  
Title

21 SEP 2022  
Date