



CERTIFICATE OF ANALYSIS
Absolute™ Low IgG Fetal Bovine Serum
(Catalog Number 100-120)

Lot Number: A019015

Date of Manufacture: Apr2019

Product Expiry: Apr2024

Origin: New Zealand

Storage Temperature: ≤ -10°C

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

Product description: Absolute™ Low IgG 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	<0.250 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	9.03 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
Osmolality	USP<785>, EP 2.2.35	260 – 350 mOsm/ kg	303 mOsm/kg
pH	USP<791>	6.5 – 8.5	7.2



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Biochemistry			
Albumin		Test and Report	2.1 g/dL
Alkaline Phosphatase		Test and Report	155 U/L
ALT (SGPT)		Test and Report	4 U/L
AST (SGOT)		Test and Report	36 U/L
GGT		<10 U/L	5 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	17 mg/dL
Calcium		Test and Report	12.2 mg/dL
Chloride		Test and Report	96 mmol/L
Cholesterol		Test and Report	31 mg/dL
Cortisol		Test and Report	<0.2 µg/dL
Creatinine		Test and Report	1.8 mg/dL
Glucose		Test and Report	59 mg/dL
IgG	ELISA	<0.070 mg/mL	0.025 mg/mL
Insulin		Test and Report	5.27 µIU/mL
Iron, Serum		Test and Report	223 µg/dL
Phosphorus		Test and Report	9.8 mg/dL
Potassium		Test and Report	>10 mmol/L
Progesterone		Test and Report	<0.06 ng/mL
Protein, Total	Biuret	2.5 – 6.0 g/dL	3.2 g/dL
Sodium		Test and Report	133 mmol/L
Testosterone		Test and Report	0.04 ng/mL
T3		Test and Report	66.0 ng/dL
T4		Test and Report	12.2 µg/dL
Triglycerides		Test and Report	56 mg/dL
Tetracycline		<4 ng/mL	1.51 ng/mL
Uric Acid		Test and Report	1.4 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. 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.

HARJOT BAINS

Name

QC ASSOCIATE

Title

28 FEB 2022

Date