

CERTIFICATE OF ANALYSIS Heat Inactivated* BenchMark™ Fetal Bovine Serum (Catalog Number 100-106)

Lot Number:

A29H00L

Date of Manufacture: FEB 2020

Origin:

Honduras

Product Expiry: FEB 2025

For Cell culture, Further Manufacturing or Research

use Only. Not for Direct Therapeutic Use.

Storage Temperature: ≤ -10°C

Product description: BenchMark[™] 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	0.77 <mark>7 EU</mark> /mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	14.8 mg/dL
Microbiological Testing			
Sterility	USP<71>, EP 2.6.1		
Bacte <mark>ria</mark>		No Growth	No Growth
F <mark>ungi</mark>		No Growth	No Growth
Mycoplasma	Barile, MF and Kern, J (1971), EP 2.6.7	Not Detected	Not Detected
Vira <mark>l Tes</mark> ting	9CFR 113.53c[113.46,		
	113.47]		
Cyt <mark>opath</mark> ic Agents		Not Detected	Not Detected
Hem <mark>adsor</mark> bing Agents Bovine Viral Diarrhea Ab Titer		Not Detected	Not Detected
Type I		Test and Report	1:1
Type II		Test and Report	1:2
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 Viral Diarrhea(non-cytopathic)		Test and Report	Tested
Bovine Syncytial Virus		Not Detected	Not Detected
Bovine Rabie 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	320 mOsm/kg
pH@RT	USP<791>	6.5 – 8.5	7.3
Biochemistry			
Albumin		Test and Report	2.3 g/dL
Alkaline Phosphatase		Test and Report	275 U/L
ALT (SGPT)		Test and Report	5 U/L
AST (SGOT)		Test and Report	53 U/L
GGT		<10 U/L	5 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	19 mg/dL
Calcium		Test and Report	13.0 mg/dL
Chloride		Test and Report	99 mM
Cholesterol		Test and Report	31 mg/dL
Cortisol		Test and Report	0.248 ug/dL
Creatinine		Test and Report	2.9 mg/dL
Estradiol		Test and Report	75.00 pg/mL
Glucose		Test and Report	1 <mark>03 m</mark> g/dL
lgG	ELISA	<0.300 mg/mL**	0.14 <mark>4 m</mark> g/mL
Insulin		Test and Report	3.40 uIU/mL
Iron, Serum		Test and Report	1 <mark>57 ug</mark> /dL
Phosphorus		Test and Report	9.3 mg/dL
Potassium		Test and Report	>10.0 mM
Progesterone 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	136 mM
Testosterone		Test and Report	<0.01 ng/mL
Т3		Test and Report	129 ng/dL
T4		Test and Report	14.8 ug/dL
Triglycerides		Test and Report	72 mg/dL
Tetracycline		<4 ng/mL	<1.0 ng/mL
Uric Acid		Test and Report	2.1 mg/dL
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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. *Results shown were obtained by carefully performed methods believed to be reliable prior to heat inactivation. 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 Khalasi	OA ASSOCIATE III
Name	Title
20 Apv 2020 Date	