

# **CERTIFICATE OF ANALYSIS**

### BenchMark™ Fetal Bovine Serum

(Catalog Number 100-106)

Lot Number: A324000

Date of Manufacture: Feb2024

Product Expiry: Feb2029

Origin: Nicaragua

Storage Temperature: ≤ -10°C

For cell culture, further manufacturing or research use only. Not for direct therapeutic use.

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	LAL	<10.0 EU/mL	<0.269 EU/mL
Hemoglobin	USP <90>	<20.0 mg/dL	11.47 mg/dL
Microbiological Testing			
terility			
Bacteria	9CFR 113.26	No Growth	No Growth
Fungi	9CFR 113.26	No Growth	No Growth
/lycoplasma	PCR	Not Detected	Not Detected
iral Testing	9CFR 113.53c [113.46, 113.47]		
ytopathic Agents		Not Detected	Not Detected
lemadsorbing Agents		Not Detected	Not Detected
xtraneous Viruses (FAb)			
Bluetongue Virus		Not Detected	Not Detected
<b>Bovine Adenovirus</b>		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
hysical Testing			
lectrophoretic Pattern		Normal	Normal
smolality	Osmometer	260 - 350 mOsm/kg	308.0 mOsm/kg
Н	pH Meter	6.5 - 8.5	7.5
Biochemistry Testing			
.lbumin		<b>Test and Report</b>	1.8 g/dL
Ikaline Phosphatase	Chemistry Analyzer	Test and Report	340 IU/L
LT (SGPT)	<b>Chemistry Analyzer</b>	<b>Test and Report</b>	10 IU/L
ST (SGOT)	<b>Chemistry Analyzer</b>	Test and Report	54 IU/L
iGT	Chemistry Analyzer	<10 U/L	4.0 IU/L
ilirubin, Total	<b>Chemistry Analyzer</b>	Test and Report	0.1 mg/dL
UN	Chemistry Analyzer	Test and Report	19.0 mg/dL
Calcium	Chemistry Analyzer	Test and Report	13.6 mg/dL
Chloride	Chemistry Analyzer	Test and Report	99.0 mEq/L



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## BenchMark™ Fetal Bovine Serum

### (Catalog Number 100-106)

Lot Number: A324000

Test	Methodology	Specification	Analysis
Cholesterol	Chemistry Analyzer	Test and Report	30.0 mg/dL
Cortisol		<b>Test and Report</b>	<0.20 µg/dL
Creatinine	Chemistry Analyzer	<b>Test and Report</b>	2.6 mg/dL
Glucose	Chemistry Analyzer	Test and Report	43.0 mg/dL
gG	ELISA	<0.300 mg/mL*	0.1197 mg/mL
nsulin		Test and Report	13.04 uIU/mL
ron, Serum	Chemistry Analyzer	<b>Test and Report</b>	160.0 μg/dL
hosphorus	Chemistry Analyzer	Test and Report	8.4 mg/dL
otassium	Chemistry Analyzer	Test and Report	10.6 mEq/L
rogesterone		Test and Report	<0.06 ng/mL
rotein, Total	Chemistry Analyzer	2.5 - 6.0  g/dL	3.8 g/dL
odium	Chemistry Analyzer	Test and Report	136.0 mEq/L
estosterone		<b>Test and Report</b>	0.02 ng/mL
3		Test and Report	56.4 ng/dL
4		Test and Report	14.6 μg/dL
riglycerides	Chemistry Analyzer	Test and Report	50.0 mg/dL
Jric Acid	Chemistry Analyzer	Test and Report	0.8 mg/dL

Our fetal bovine serum meets all USDA requirements and has passed ante and post-mortem inspection. 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.

Levi Immos	210CT2024
Name	Date
OC Associate Title	