



**CERTIFICATE OF ANALYSIS**  
**GemCell™ Adult Bovine Serum**  
**0.2µm sterile filtered**  
**(Catalog Number 100-101)**

Lot Number: C424010

Date of Manufacture: Nov2018

Product Expiry: Nov2026

Origin: United States

Storage Temperature: ≤-10°C

For Cell Culture, further Manufacturing or Research use only. Not for Direct Therapeutic use.

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Endotoxin	LAL	Report	0.561 EU/mL
Hemoglobin	USP <90>	Report	6.70 mg/dL
<b>Microbiological Testing</b>			
Sterility	9CFR 113.26		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	9CFR 113.28	Not Detected	Not Detected
<b>Viral Testing</b>	9CFR 113.53		
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Not Detected	Not Detected
Extraneous Viruses (FAb)			
Bluetongue Virus		Not Detected	Not Detected
Bovine Viral Diarrhea		Report	Not Detected
<b>Physical Testing</b>			
Osmolality	Osmometer	Report	291.0 mOsm/kg H <sub>2</sub> O
pH @ RT	pH Meter	Report	7.5
<b>Biochemistry</b>			
Albumin	Chemistry Analyzer	Report	3.7 g/dL
ALT (SGPT)	Chemistry Analyzer	Report	14 IU/L
AST (SGOT)	Chemistry Analyzer	Report	104 IU/L
Bilirubin, Total	Chemistry Analyzer	Report	0.1 mg/dL
Calcium	Chemistry Analyzer	Report	7.1 mg/dL
Chloride	Chemistry Analyzer	Report	93.0 mEq/L
Cholesterol	Chemistry Analyzer	Report	91.0 mg/dL
Creatinine	Chemistry Analyzer	Report	0.7 mg/dL



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Glucose	Chemistry Analyzer	Report	63.0 mg/dL
Iron, Serum	Chemistry Analyzer	Report	85.0 µg/dL
Phosphorus	Chemistry Analyzer	Report	8.9 mg/dL
Potassium	Chemistry Analyzer	Report	6.0 mEq/L
Protein, Total	Chemistry Analyzer	Report	7.2 g/dL
Sodium	Chemistry Analyzer	Report	138.0 mEq/L
Triglycerides	Chemistry Analyzer	Report	17.0 mg/dL

*Results shown were obtained by carefully performed methods believed to be reliable. However, since some results may vary by methodology, it is suggested that tests for which results are particularly critical be repeated by the end user. Our 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 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.

Korrina Nicewonger

Name

QC Associate II

Title

14 FEB 2024

Date