



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

Lot Number: C424042

Date of Manufacture: Nov2021

Product Expiry: Nov2026

Origin: United States

Storage Temperature: ≤-10°C

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

**Product Description:** GemCell™ Adult Bovine Serum is 0.2 µm sterile-filtered.

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Endotoxin	LAL	Report	0.602 EU/mL
Hemoglobin	USP <90>	Report	28.44 mg/dL
<b>Microbiological Testing</b>			
<b>Sterility</b>			
Bacteria	9CFR 113.26	No Growth	No Growth
Fungi	9CFR 113.26	No Growth	No Growth
Mycoplasma	PCR	Not Detected	Not Detected
<b>Viral Testing</b>			
Cytopathic Agents	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Hemadsorbing Agents	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
<b>Extraneous Viruses (FAb)</b>			
Bluetongue Virus	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Viral Diarrhea	9CFR 113.53c, 113.46, 113.47	Report	Not Detected
<b>Physical Testing</b>			
Osmolality	Osmometer	Report	300.0 mOsm/kg
pH @ RT	pH Meter	Report	7.1
<b>Biochemistry Testing</b>			
Albumin	Chemistry Analyzer	Report	3.0 g/dL
ALT (SGPT)	Chemistry Analyzer	Report	26 IU/L
AST (SGOT)	Chemistry Analyzer	Report	118 IU/L
Bilirubin, Total	Chemistry Analyzer	Report	0.3 mg/dL
Calcium	Chemistry Analyzer	Report	9.6 mg/dL
Chloride	Chemistry Analyzer	Report	96.0 mEq/L
Cholesterol	Chemistry Analyzer	Report	72.0 mg/dL
Creatinine	Chemistry Analyzer	Report	1.2 mg/dL
Glucose	Chemistry Analyzer	Report	61.0 mg/dL
Iron, Serum	Chemistry Analyzer	Report	105.0 µg/dL



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Phosphorus	Chemistry Analyzer	Report	7.2 mg/dL
Potassium	Chemistry Analyzer	Report	6.4 mEq/L
Protein, Total	Chemistry Analyzer	Report	8.0 g/dL
Sodium	Chemistry Analyzer	Report	141.0 mEq/L
Triglycerides	Chemistry Analyzer	Report	15.0 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. 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.

Levi Immoos  
Name

QC Associate  
Title

29 OCT 2024  
Date