



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

Lot Number: C425039

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
Biological Testing			
Endotoxin	LAL	Report	0.602 EU/mL
Hemoglobin	USP <90>	Report	28.44 mg/dL
Microbiological Testing			
Sterility	9CFR 113.26		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	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 Viral Diarrhea		Report	Not Detected
Physical Testing			
Osmolality	Osmometer	Report	300.0 mOsm/kg H ₂ O
pH @ RT	pH Meter	Report	7.1
Biochemistry Testing			
	Chemistry Analyzer		
Albumin		Report	3.0 g/dL
ALT (SGPT)		Report	26 IU/L
AST (SGOT)		Report	118 IU/L
Bilirubin, Total		Report	0.3 mg/dL
Calcium		Report	9.6 mg/dL
Chloride		Report	96.0 mEq/L
Cholesterol		Report	72.0 mg/dL
Creatinine		Report	1.2 mg/dL
Glucose		Report	61.0 mg/dL



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Test	Methodology	Specification	Analysis
Iron, Serum		Report	105.0 µg/dL
Phosphorus		Report	7.2 mg/dL
Potassium		Report	6.4 mEq/L
Protein, Total		Report	8.0 g/dL
Sodium		Report	141.0 mEq/L
Triglycerides		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 I
Title

10 NOV 2025
Date