



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

Lot Number: C423022

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.

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	LAL	Report	0.602 EU/mL
Hemoglobin	USP<90>	Report	28.4 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			
Albumin	Chemistry Analyzer	Report	3.0 g/dL
ALT (SGPT)	Chemistry Analyzer	Report	26.0 IU/L
AST (SGOT)	Chemistry Analyzer	Report	118.0 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



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Glucose	Chemistry Analyzer	Report	62.0 mg/dL
Iron, Serum	Chemistry Analyzer	Report	105.0 µg/dL
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 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.

VANESSA YOUNG
Name

QA ASSOCIATE II
Title

02 AUG 2023
Date