



## CERTIFICATE OF ANALYSIS

### GemCell™ SuperCalf Serum

**(Catalog Number 100-510)**

**Lot Number: C425002**

**Date of Manufacture:** Apr2024

**Product Expiry:** Apr2029

**Origin:** United States (100%)

**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	USP <85> & EP 2.6.14	Report	<0.1 EU/mL
<b>Microbiological Testing</b>			
Sterility	USP <71> & EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile and Kern & Hoechst Fluorochrome Stain 9 CFR Part 113.53c	Not Detected	Not Detected
<b>Viral Testing</b>			
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Not Detected	Not Detected
Extraneous Viruses (FAb)			
Bovine Viral Diarrhea (non-cytopathic)		Not Detected	Not Detected
Bluetongue Virus		Not Detected	Not Detected
<b>Physical Testing</b>			
Osmolality	USP <785> & EP 2.2.35	Report	290 mOsm/kg
pH @ RT	USP <791> & EP 2.2.3	Report	7.72
<b>Biochemistry Testing</b>			
Albumin		Report	3.1 g/dL
Alkaline Phosphatase		Report	180 IU/L
ALT (SGPT)		Report	9 IU/L
AST (SGOT)		Report	51 IU/L
Bilirubin, Total		Report	0.2 mg/dL
BUN		Report	8 mg/dL
Calcium		Report	9.6 mg/dL
Cholesterol		Report	109 mg/dL
Creatinine		Report	0.7 mg/dL
Glucose		Report	57 mg/dL
Hemoglobin	Spectrophotometric Method	Report	11.15 mg/dL
Iron, Serum		Report	552.27 µg/dL



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Test	Methodology	Specification	Analysis
Phosphorus		Report	8.6 mg/dL
Potassium		Report	5.6 mmol/L
Protein, Total	USP <1057> & EP 2.5.33	Report	6.8 g/dL
Sodium		Report	137 mmol/L
Triglycerides		Report	15 mg/dL
Uric Acid		Report	0.9 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 serums meets all USDA requirements and has passed ante- and post-mortem. 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

27 JAN 2025  
Date

QC Associate I  
Title