



**CERTIFICATE OF ANALYSIS**  
**GemCell™ U.S. Origin SuperCalf Serum**  
**(Catalog Number 100-510)**

Lot Number: C424037

Date of Manufacture: May2024

Product Expiry: May2029

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>/Ph. Eur. 2.6.14	Report	<0.25 EU/mL
<b>Microbiological Testing</b>			
Sterility	USP<71>/Ph. Eur. 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	USP<63>/Ph. Eur. 2.6.1	Not Detected	Not Detected
<b>Viral Testing</b>	9CFR 113.53c[113.46, 113.47]		
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>/Ph. Eur. 2.2.35	Report	296 mOsm/kg
pH @ RT	USP<791>/Ph. Eur. 2.2.3	Report	7.54
<b>Biochemistry</b>			
Albumin		Report	3.4 g/dL
Alkaline Phosphatase		Report	281 U/L
ALT (SGPT)		Report	13 U/L
AST (SGOT)		Report	80 U/L
Bilirubin, Total		Report	0.3 mg/dL
BUN		Report	8 mg/dL
Calcium		Report	10.2 mg/dL
Cholesterol		Report	139 mg/dL
Creatinine		Report	0.70 mg/dL
Glucose		Report	103 mg/dL
Hemoglobin	Spectrophotometric Method	Report	10 mg/dL
Iron, Serum		Report	541 µg/dL



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Test	Methodology	Specification	Analysis
Phosphorus		Report	8.7 mg/dL
Potassium		Report	6.1 mmol/L
Protein, Total	USP<1057> Ph. Eur. 2.5.33	Report	6.5 g/dL
Sodium		Report	142 mmol/L
Triglycerides		Report	21 mg/dL
Uric Acid		Report	1.0 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 serums 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.

Cassandra Baraza  
Name

QC Associate II  
Title

19SEP2024  
Date