



**CERTIFICATE OF ANALYSIS**  
**GemCell™ Newborn Calf Serum**  
**(Catalog Number 100-504)**

Lot Number: C426004

Date of Manufacture: Jun2025

Product Expiry: Jun2030

Origin: New Zealand

Storage Temperature: ≤ -10°C

For cell culture, further manufacturing or research use only. Not for direct therapeutic use.

**Product Description:** *GemCell™ Newborn Calf Serum is sterile-filtered and is sourced from calves <20 days of age from U.S. or N.Z. origin.*

Test	Methodology	Specification	Analysis
<b>Biological Testing</b>			
Endotoxin	LAL	Test and Report	1.280 EU/mL
Hemoglobin	USP <90>	Test and Report	8.274 mg/dL
<b>Microbiological Testing</b>			
Sterility	9CFR 113.26		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	PCR	Not Detected	Not Detected
<b>Viral Testing</b>			
	9CFR 113.53c, 113.46, 113.47		
Bovine Viral Diarrhea		Not Detected	Not Detected
IBR		Not Detected	Not Detected
Para Influenza 3 Virus (PI3)		Not Detected	Not Detected
BPV		Not Detected	Not Detected
Rabies Virus		Not Detected	Not Detected
<b>Physical Testing</b>			
Osmolality	Osmometer	Test and Report	282 mOsm/kg H <sub>2</sub> O
pH @ RT	pH Meter	Test and Report	7.7
<b>Biochemistry Testing</b>			
Albumin	Chemistry Analyzer	Test and Report	2.7 g/dL
ALT (SGPT)	Chemistry Analyzer	Test and Report	17 IU/L
AST (SGOT)	Chemistry Analyzer	Test and Report	59 IU/L
Bilirubin, Total	Chemistry Analyzer	Test and Report	0.2 mg/dL
BUN	Chemistry Analyzer	Test and Report	12 mg/dL
Calcium	Chemistry Analyzer	Test and Report	11.1 mg/dL
Chloride	Chemistry Analyzer	Test and Report	97 mEq/L
Cholesterol	Chemistry Analyzer	Test and Report	67 mg/dL
Creatinine	Chemistry Analyzer	Test and Report	0.7 mg/dL
Glucose	Chemistry Analyzer	Test and Report	107 mg/dL
Iron, Serum	Chemistry Analyzer	Test and Report	122 µg/dL



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Phosphorus	Chemistry Analyzer	Test and Report	7.4 mg/dL
Potassium	Chemistry Analyzer	Test and Report	5.5 mEq/L
Protein, Total	Chemistry Analyzer	Test and Report	6.2 g/dL
Sodium	Chemistry Analyzer	Test and Report	136 mEq/L
Uric Acid	Chemistry Analyzer	Test and Report	0.3 mg/dL

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 Timmoos  
Name

12 FEB 2026  
Date

QC Associate I  
Title