



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

Lot Number: C425040

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
Biological Testing			
Endotoxin	LAL	Test and Report	1.280 EU/mL
Hemoglobin	USP <90>	Test and Report	8.274 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		
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
Physical Testing			
Osmolality	Osmometer	Test and Report	282 mOsm/kg H ₂ O
pH @ RT	pH Meter	Test and Report	7.7
Biochemistry Testing	Chemistry Analyzer		
Albumin		Test and Report	2.7 g/dL
ALT (SGPT)		Test and Report	17 IU/L
AST (SGOT)		Test and Report	59 IU/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	12 mg/dL
Calcium		Test and Report	11.1 mg/dL
Chloride		Test and Report	97 mEq/L
Cholesterol		Test and Report	67 mg/dL
Creatinine		Test and Report	0.7 mg/dL
Glucose		Test and Report	107 mg/dL
Iron, Serum		Test and Report	122 µg/dL



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

Lot Number: C425040

Test	Methodology	Specification	Analysis
Phosphorus		Test and Report	7.4 mg/dL
Potassium		Test and Report	5.5 mEq/L
Protein, Total		Test and Report	6.2 g/dL
Sodium		Test and Report	136 mEq/L
Uric Acid		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 Immoos
Name

08 DEC 2025
Date

QC Associate I
Title