



CERTIFICATE OF ANALYSIS

GemCell™ ANZ Origin Fetal Bovine Serum

(Catalog Number 100-700-500, 100-700-050)

Lot Number: A326005

Date of Manufacture: May2025

Product Expiry: May2030

Origin: Australia

Storage Temperature: ≤ -10°C

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

Product Description: GemCell™ ANZ Origin Fetal Bovine Serum is sterile-filtered through a 0.1 µm filter prior to freezing.

Test	Methodology	Specification	Analysis
Biological Testing			
Endotoxin	USP <85> & EP 2.6.14	<10.0 EU/mL	<0.500 EU/mL
Hemoglobin	USP <90>	<20.0 mg/dL	15.0 mg/dL
Microbiological Testing			
Sterility	USP <71> & EP 2.6.1		
Bacteria		No Growth	No Growth
Fungi		No Growth	No Growth
Mycoplasma	Barile and Kern & Hoechst Fluorochrome Stain	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 Adenovirus		Not Detected	Not Detected
Bovine Parvovirus		Not Detected	Not Detected
Bovine Viral Diarrhea (Cytopathic)		Not Detected	Not Detected
Bovine Respiratory Syncytial Virus		Not Detected	Not Detected
Rabies Virus		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate Electrophoresis	Normal	Normal
Osmolality	USP <785> & EP 2.2.35	260 – 350 mOsm/kg	307 mOsm/kg
pH	USP <791> & EP 2.2.3	6.5 – 8.5	7.60
Biochemistry Testing			
Albumin		Test and Report	2.1 g/dL
Alkaline Phosphatase		Test and Report	223 IU/L
ALT (SGPT)		Test and Report	5 IU/L
AST (SGOT)		Test and Report	32 IU/L



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Test	Methodology	Specification	Analysis		
GGT	Chemistry Analyzer	<10 U/L	6 IU/L		
Bilirubin, Total		Test and Report	0.3 mg/dL		
BUN		Test and Report	15 mg/dL		
Calcium		Test and Report	13.7 mg/dL		
Chloride		Test and Report	100 mmol/L		
Cholesterol		Test and Report	30 mg/dL		
Cortisol		Test and Report	<0.20 µg/dL		
Creatinine		Test and Report	2.8 mg/dL		
Glucose		Test and Report	92 mg/dL		
IgG		ELISA	<0.300 mg/mL*	<0.121 mg/mL	
Insulin			Test and Report	6.67 µIU/mL	
Iron, Serum			Test and Report	207 µg/dL	
Phosphorus			Test and Report	10.3 mg/dL	
Potassium			Test and Report	11.0 mmol/L	
Progesterone			Test and Report	<0.1 ng/mL	
Protein, Total			USP <1057> & EP 2.5.33	2.5 – 6.0 g/dL	3.7 g/dL
Sodium				Test and Report	141 mmol/L
Testosterone	Test and Report			<0.01 ng/mL	
T3	Test and Report			139.0 ng/dL	
T4	Test and Report	9.5 µg/dL			
Triglycerides	Test and Report	64 mg/dL			
Uric Acid	Test and Report	2.3 mg/dL			

Our fetal bovine serum 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 fetal 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. *Some geographic regions may test higher than 0.300 mg/mL. If this be the case, refer to GGT results less than 10 U/L to ensure FBS purity.

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 Barraza
Name

06 MAY 2026
Date

QC Associate II
Title