

Product: **GemCell™ U.S. Origin SuperCalf Serum**
 < 18 months of age
 0.2µm sterile-filtered

Catalog #: 100-510

Lot #: C53F00F

Origin: United States (100%)

Manufacture Date: Jan 2014

Expiration Date: Jan 2019

TEST	METHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Culture Performance, Presumptive		Pass	Pass
Endotoxin	USP <85>	Report	<0.5 EU/mL
Microbiological Testing			
Sterility	9 CFR 113.26		
Bacteria		Not Detected	Not Detected
Fungi		Not Detected	Not Detected
Mycoplasma	Barile, MF and Kern, J (1971)	Not Detected	Not Detected
Viral Testing			
	Modified 9 CFR 113.53c		
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
Physical Testing			
Osmolality	USP<785>	Report	302 mOsm/kg
pH @ RT	USP<791>	Report	7.92



Biochemical Testing

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Albumin			3.1 g/dL
Alkaline Phosphatase			136.0 U/L
ALT (SGPT)			6.0 U/L
AST (SGOT)			36.0 U/L
Bilirubin, Total			0.1 mg/dL
BUN			7.0 mg/dL
Calcium			2.03 mM
Chloride			93.0 mM
Cholesterol			114.0 mg/dL
Creatinine			0.8 mg/dL
Glucose			4.61 mM
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	Report	9.33 mg/dL
Iron, Serum			426.0 µg/dL
Phosphorus			2.55 mM
Potassium			5.5 mM
Protein, Total	Biuret	Report	6.0 g/dL
Sodium			131.0 mM
Triglycerides			15.0 mg/dL
Uric Acid			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 serum meets all USDA requirements and has passed ante- and post-mortem inspection by a licensed veterinarian. 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.

Quality Assurance