



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

**Catalog #: 100-510**

**Lot #: C08J00K**

**Origin: United States (100%)**

**Manufacture Date: Jun 2019**

**Expiration Date: Jun 2024**

TEST	METHODOLOGY	SPECIFICATION	RESULTS
<b>Biological Testing</b>			
Endotoxin	USP <85>	Report	0.715 EU/mL
<b>Microbiological Testing</b>			
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
<b>Viral Testing</b>			
	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
<b>Physical Testing</b>			
Osmolality	USP<785>	Report	301 mOsm/kg
pH @ RT	USP<791>	Report	7.58



**GEMINI**  
BIO-PRODUCTS

# Biochemical Testing

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Albumin			3.1 g/dL
Alkaline Phosphatase			160 U/L
ALT (SGPT)			9 U/L
AST (SGOT)			66 U/L
Bilirubin, Total			0.2 mg/dL
BUN			8 mg/dL
Calcium			2.35 mM
Chloride			100 mM
Cholesterol			100 mg/dL
Creatinine			0.7mg/dL
Glucose			3.94 mM
Hemoglobin	Spectrophotometric Method	Report	9.89 mg/dL
Iron, Serum			513 µg/dL
Phosphorus			2.75 mM
Potassium			6.0 mM
Protein, Total	Biuret	Report	6.6 g/dL
Sodium			145 mM
Triglycerides			14 mg/dL
Uric Acid			1.9 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.*

Devi 12 Aug 2019

**CREATED BY/DATE**

[Signature] 12 Aug 2019

**VERIFIED BY/DATE**