

**Product:** **GemCell™ Fetal Bovine Serum**  
**γ-irradiated**  
**Heat Inactivated\***  
 Triple 0.1µm sterile-filtered

**Catalog #: 100-201**

**Lot #: A52F82G**

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

**Manufacture Date: Oct 2015**

**Expiration Date: Oct 2020**

TEST	METHODOLOGY	SPECIFICATION	RESULTS
<b>Biological Testing</b>			
Endotoxin	USP<85>	<10.0 EU/mL	<0.1 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	9.76 mg/dL
<b>Microbiological Testing</b>			
Sterility	USP<71>		
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>			
	9 CFR 113.53c [113.46, 113.47]		
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Not Detected	Not Detected
Bovine Viral Diarrhea Ab Titer			1:1
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 Syncytial Virus		Not Detected	Not Detected
Bovine Rabies Virus		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
<b>Physical Testing</b>			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>	260-350 mOsm/kg	305 mOsm/kg
pH @ RT	USP<791>	6.5 – 8.5	7.09



# Biochemical Testing

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TEST	METHODOLOGY	SPECIFICATION	RESULTS
Albumin			2.1 g/dL
Alkaline Phosphatase			191 U/L
ALT (SGPT)			3 U/L
AST (SGOT)			27 U/L
Bilirubin, Total			0.2 mg/dL
BUN			13.8 mg/dL
Calcium			2.90 mM
Chloride			100 mM
Cholesterol			31 mg/dL
Cortisol			8.277 nM
Creatinine			2.8 mg/dL
Estrogen			63.14 pM
Glucose			5.38 mM
IgG	ELISA		8.62 mg/dL
Insulin			38.48 pM
Iron, Serum			179 ug/dL
Phosphorus			3.13 mM
Potassium			>10.0 mM
Progesterone			0.318 nM
Protein, Total	Biuret	2.5-6.0 g/dL	3.7 g/dL
Sodium			139 mM
Testosterone			<0.035 nM
T3			1.69 nM
T4			308.88 nM
Triglycerides			64 mg/dL
Tetracycline			Pending ug/mL
Uric Acid			1.9 mg/dL

\*Results shown were obtained prior to heat inactivation 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 fetal 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 fetal bovine serum is traceable by lot number, date and country of collection.

*Jacqueline Wilson* 20 DEC 2021  
 Quality Assurance