

Product: **GemCell™ Fetal Bovine Serum**
Gamma Irradiated
 Triple 0.1µm sterile-filtered

Catalog #: 100-500G
Lot #: A88E82G
Origin: United States (100%)

Manufacture Date: Mar 2015
Expiration Date: Mar 2020

TEST	METHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<10.0 EU/mL	<1.0 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	9.1 mg/dL
Microbiological Testing			
Sterility	USP<71>		
Bacteria		Not Detected	Not Detected
Fungi		Not Detected	Not Detected
Mycoplasma	Barile, MF and Kern, J (1971)	Not Detected	Not Detected
Viral Testing			
	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			
Type I			Pending
Type II			Pending
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
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>	260-350 mOsm/kg	284 mOsm/kg
pH @ RT	USP<791>	6.5 – 8.5	7.5

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Albumin			2.3 g/dL
Alkaline Phosphatase			294 U/L
ALT (SGPT)			6.0 U/L
AST (SGOT)			50 U/L
Bilirubin, Total			0.2 mg/dL
BUN			20 mg/dL
Calcium			3.35 mM
Chloride			102 mM
Cholesterol			34 mg/dL
Cortisol			Pending
Creatinine			2.6 mg/dL
Estrogen			Pending
Glucose			2.50 mM
IgG	ELISA		2.0 mg/mL
Insulin			Pending
Iron, Serum			177 ug/dL
Phosphorus			4.33 mM
Potassium			>8.0 mM
Progesterone			Pending
Protein, Total	Biuret	2.5-6.0 g/dL	3.7 g/dL
Sodium			143 mM
Testosterone			Pending
T3			Pending
T4			Pending
Triglycerides			60 mg/dL
Tetracycline			Pending
Uric Acid			<1.5 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 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. Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance.