

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

Catalog #: 100-500G

Lot #: A71E22F

Origin: United States (100%)

Manufacture Date: Oct 2014

Expiration Date: Oct 2019

TEST	METHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<10.0 EU/mL	<0.3 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	7.8 mg/dL
Gamma irradiation	Cobalt 60	>30 kGy	Min 30.1 kGy Max 39.0 kGy
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			1:2
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	310 mOsm/kg
pH @ RT	USP<791>	6.5 – 8.5	7.3

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Albumin			2.3 g/dL
Alkaline Phosphatase			166.0 U/L
ALT (SGPT)			4.0 U/L
AST (SGOT)			27.0 U/L
Bilirubin, Total			0.2 mg/dL
BUN			16.0 mg/dL
Calcium			3.4 mM
Chloride			104.0 mM
Cholesterol			35.0 mg/dL
Cortisol			5.74 nM
Creatinine			2.7 mg/dL
Estrogen			151.5 pM
Glucose			8.05 mM
IgG	ELISA		0.13 mg/mL
Insulin			27.7 pM
Iron, Serum			205.0 ug/dL
Phosphorus			3.62 mM
Potassium			11.8 mM
Progesterone			<0.064 nM
Protein, Total	Biuret	2.5-6.0 g/dL	3.7 g/dL
Sodium			143 mM
Testosterone			<0.04 nM
T3			<9.24 nM
T4			93.6 nM
Triglycerides			N/A
Tetracycline			<4 ng/mL
Uric Acid			2.2 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.