

Certificate of Analysis

Created September 5, 2018

Product:

Dialyzed Fetal Bovine Serum Heat Inactivated*

Triple 0.1µm sterile-filtered

Catalog #: 100-108 Lot #: A54G02I

Origin: Mexico (100%)

Manufacture Date: Jul 2017 Expiration Date: Jul 2022

TEST	M ETHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<10.0 EU/mL	0.128 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	10.61 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			
Туре І		Test and Report	1:8
Type II		Test and Report	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 Viral Diarrhea (non-cytopathic)		Test and Report	Tested
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 m0sm/kg	283 m0sm/kg
pH @ RT	USP<791>	6.5 - 8.5	7.12



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	T EST	M ETHODOLOGY	SPECIFICATION	RESULTS
	Albumin		Test and Report	2.0 g/dL
	Alkaline Phosphatase		Test and Report	185 U/L
	ALT (SGPT)		Test and Report	5 U/L
	AST (SGOT)		Test and Report	37 U/L
	GGT_		<10 U/L	6 U/L
	Bilirubin, Total		Test and Report	0.1 mg/dL
	BUN		Test and Report	1 mg/dL
	Calcium		Test and Report	0.73 mM
	Chloride		Test and Report	142 mM
	Cholesterol		Test and Report	31 mg/dL
	Cortisol		Test and Report	12.5 nM
	Creatinine		Test and Report	0 mg/dL
	Estradiol		Test and Report	86.3 pM
	Glucose		Test and Report	0.6 mM
	IgG	ELISA	<0.300 mg/mL**	0.118 mg/mL
	Insulin		Test and Report	<16.4 pM
	Iron, Serum		Test and Report	181 ug/dL
	Phosphorus		Test and Report	0.3 mM
	Potassium		Test and Report	1.3 mM
	Progesterone		Test and Report	<0.3 nM
	Protein, Total	Biuret	2.5-6.0 g/dL	3.6 g/dL
	Sodium		Test and Report	154 mM
	Testosterone		Test and Report	<0.03 nM
	T3		Test and Report	1.71 nM
	T4		Test and Report	216 nM
	Triglycerides		Test and Report	<10 mg/dL
	Tetracycline		<4 ng/mL	Pass
	Uric Acid		Test and Report	0.2 mg/dL

For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use.

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.
**Some geographic regions may test higher than 0.300 mg/mL. If this be the case, refer to GGT results less than 10 U/L to ensure FBS purity.

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VERIFIED BY/ DATE

^{*}Results shown were obtained by carefully performed methods believed to be reliable prior to heat inactivation. 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.