

Certificate of Analysis

Created December 12, 2018

Product:

Tetracycline Negative Fetal Bovine Serum

Heat Inactivated*

Triple 0.1µm sterile-filtered

Catalog #: 100-800 Lot #: A69G00J

Origin: Nicaragua (100%)

Manufacture Date: Oct 2018 Expiration Date: Oct 2023

TEST	M ETHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<10.0 EU/mL	<0.500 EU/m
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	12.6 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		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	302 m0sm/k
pH @ RT	USP<791>	6.5 - 8.5	7.26



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Albumin		Test and Report		2.2	g/dL
Alkaline Phosphatase		Test and Report		295	U/L
ALT (SGPT)		Test and Report		5	U/L
AST (SGOT)		Test and Report		38	U/L
GGT		<10 U/L		5	U/L
Bilirubin, Total		Test and Report		0.2	mg/dL
BUN		Test and Report		19	mg/dL
Calcium		Test and Report		3.25	mM
Chloride		Test and Report		100	mM
Cholesterol		Test and Report		31	mg/dL
Cortisol		Test and Report		<5.5	nM
Creatinine		Test and Report		2.7	mg/dL
Estradiol		Test and Report		82.6	pM
Glucose		Test and Report		2.44	mM
lgG	ELISA	<0.300 mg/mL**		0.130	mg/mL
Insulin		Test and Report		48.3	pM
Iron, Serum		Test and Report		160	ug/dL
Phosphorus		Test and Report		2.58	mM
Potassium		Test and Report		9.7	mM
Progesterone		Test and Report		<0.19	nM
Protein, Total	Biuret	2.5-6.0 g/dL		3.5	g/dL
Sodium		Test and Report		137	mM
Testosterone		Test and Report	141	<0.03	nM
T3		Test and Report		0.83	nM
T4		Test and Report		170	nM
Triglycerides		Test and Report		46	mg/dL
Tetracycline		<1 ng/mL		Pass	
Uric Acid		Test and Report		1.1	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.

CREATED BY/ DATE

VERIFIED RY/ 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.