

Certificate of Analysis

Created January 08, 2020

Product:

Foundation™ Fetal Bovine Serum Heat Inactivated*

Triple 0.1µm sterile-filtered

Catalog #: 900-108 Lot #: A15H74K

Origin: Panama (100%)

Manufacture Date: Aug 2019 Expiration Date: Aug 2024

TEST	M ETHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<50.0 EU/mL	46.8 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	9.57 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	1:1
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	349 m0sm/kg
pH @ RT	USP<791>	6.5 - 8.5	7.19



Biochemical Testing

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M ETHODOLOGY	SPECIFICATION	Resi	ULTS	
	Test and Report	2.4	g/dL	
	Test and Report	281	U/L	
	Test and Report	3	U/L	
	Test and Report	19	U/L	
	<10 U/L	6	U/L	
	Test and Report	0.2	mg/dL	
	Test and Report	17	mg/dL	
	Test and Report	3.28	mM	
	Test and Report	103	mM	
	Test and Report	26	mg/dL	
	Test and Report	<5.5	nM	
	Test and Report	2.9	mg/dL	
	Test and Report	95.8	pM	
	Test and Report	2.94	mM	
ELISA	<0.300 mg/mL**	0.097	mg/mL	
	Test and Report	48.9	pM	
	Test and Report	156	ug/dL	
	Test and Report	2.6	mM	
	Test and Report	>10.0	mM	
	Test and Report	<0.19	nM	
Biuret	2.5-6.0 g/dL	3.5	g/dL	
	Test and Report	137	mM	
	Test and Report	< 0.03	nM	
	Test and Report	1.40	nM	
	Test and Report	180	nM	
	Test and Report	56	mg/dL	
	<4 ng/mL	Pass		
	Test and Report	1.5	mg/dL	
	ELISA	Test and Report <10 U/L Test and Report	Test and Report 2.4 Test and Report 281 Test and Report 3 Test and Report 19 <10 U/L 6 Test and Report 1.7 Test and Report 1.7 Test and Report 1.03 Test and Report 1.03 Test and Report 2.6 Test and Report 2.9 Test and Report 2.9 Test and Report 2.9 Test and Report 2.94 Co.300 mg/mL** 0.097 Test and Report 1.56 Test and Report 2.6 Test and Report 1.56 Test and Report 1.56 Test and Report 1.56 Test and Report 1.00	Test and Report 2.4 g/dL Test and Report 281 U/L Test and Report 3 U/L Test and Report 19 U/L <10 U/L Test and Report 0.2 mg/dL Test and Report 17 mg/dL Test and Report 17 mg/dL Test and Report 103 mM Test and Report 103 mM Test and Report 103 mM Test and Report 26 mg/dL Test and Report 25.5 nM Test and Report 2.9 mg/dL Test and Report 2.94 mM Test and Report 2.95 mg/dL Test and Report 1.56 ug/dL Test and Report 2.6 mM Test and Report 2.6 mM Test and Report 2.10.0 mM Test and Report 2.0.03 nM Test and Report 1.40 nM Test and Report 56 mg/dL Test and Report 56 mg/dL

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

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.

08 JAN 2020