

## **Certificate of Analysis**

Created May 1, 2019

**Product:** 

Foundation™ Fetal Bovine Serum Heat Inactivated\*

Triple 0.1µm sterile-filtered

Catalog #: 900-108 Lot #: A73G00K

Origin: Mexico (100%)

Manufacture Date: Feb 2019 Expiration Date: Feb 2024

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TEST	<b>М</b> ЕТНОDOLOGY	SPECIFICATION	RESULTS	
Biological Testing		P		
Endotoxin	USP<85>	<50.0 EU/mL	1.14 EU/mL	
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	14.7 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	1:4	
Type II		Test and Report	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 (cytop	pathic)	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 m0sm/kg	327 m0sm/kg	
pH @ RT	USP<791>	6.5 – 8.5	7.27	



## **Biochemical Testing**

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<b>T</b> EST	METHODOLOGY	SPECIFICATION	RESULTS	
Albumin		Test and Report	2.3	g/dL
Alkaline Phosphatase		Test and Report	208	U/L
ALT (SGPT)		Test and Report	5	U/L
AST (SGOT)		Test and Report	29	U/L
GGT		<10 U/L	5	U/L
Bilirubin, Total		Test and Report	0.2	mg/dL
BUN		Test and Report	15	mg/dL
Calcium		Test and Report	3.2	mM
Chloride		Test and Report	100	mM
Cholesterol		Test and Report	30	mg/dL
Cortisol		Test and Report	<5.52	nM
Creatinine		Test and Report	2.5	mg/dL
Estradiol		Test and Report	154	pM
Glucose		Test and Report	4.6	mM
IgG	ELISA	<0.300 mg/mL**	0.067	mg/mL
Insulin		Test and Report	37.8	рМ
Iron, Serum		Test and Report	164	ug/dL
Phosphorus		Test and Report	3.0	mM
Potassium		Test and Report	>10.0	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	138	mM
Testosterone		Test and Report	<0.03	nM
Т3		Test and Report	1.62	nM
T <b>4</b>		Test and Report	158	nM
Triglycerides		Test and Report	69	mg/dL
Tetracycline		<4 ng/mL	Pass	
Uric Acid		Test and Report	2.2	mg/dL

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

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 BY/ DATE

<sup>\*</sup>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.