

## **Certificate of Analysis**

Updated July 6, 2018

**Product:** 

Foundation™ Fetal Bovine Serum

**Heat Inactivated\*** 

Triple 0.1µm sterile-filtered

Catalog #: 900-108

Lot #: A46G00J

Origin: United States (24%) + Mexico (76%)

Manufacture Date: May 2018 Expiration Date: May 2023

	70, MOMOO (1070)	Expiration butor May 2020		
Test	<b>M</b> ETHODOLOGY	SPECIFICATION	RESULTS	
Biological Testing				
Endotoxin	USP<85>	<50.0 EU/mL	0.932 EU/mL	
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	28.3 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	
	4			
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	1:2	
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 (cyto	pathic)	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	312 mOsm/kg	
pH @ RT	USP<791>	6.5 - 8.5	7.14	



## **Biochemical Testing**

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	Test	<b>M</b> ETHODOLOGY	SPECIFICATION	Resu	ILTS	
	Albumin		Test and Report	2.3	g/dL	
	Alkaline Phosphatase		Test and Report	249	U/L	
	ALT (SGPT)		Test and Report	9	U/L	
	AST (SGOT)		Test and Report	52	U/L	
	GGT		<10 U/L	5	U/L	
	Bilirubin, Total		Test and Report	0.3	mg/dL	
	BUN		Test and Report	15	mg/dL	
	Calcium		Test and Report	3.4	mM	
	Chloride		Test and Report	99	mM	
	Cholesterol		Test and Report	33	mg/dL	
	Cortisol		Test and Report	8.33	nM	
	Creatinine		Test and Report	2.7	mg/dL	
	Estradiol		Test and Report	82.2	pM	
	Glucose		Test and Report	6.44	mM	
	IgG	ELISA	<0.300 mg/mL**	0.309	mg/mL	
	Insulin		Test and Report	65.1	pM	
	Iron, Serum		Test and Report	190	ug/dL	
	Phosphorus		Test and Report	3.33	mM	
	Potassium		Test and Report	>10.0	mM	
	Progesterone		Test and Report	<0.159	nM	
	Protein, Total	Biuret	2.5-6.0 g/dL	3.7	g/dL	
	Sodium		Test and Report	137	mM	
	Testosterone		Test and Report	< 0.03	nM	
	T3		Test and Report	2.53	nM	
	T4		Test and Report	169	nM	
	Triglycerides		Test and Report	80	mg/dL	
	Tetracycline		<4 ng/mL	Pass		
	Uric Acid		Test and Report	2.3	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** 

<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.