

Certificate of Analysis

Created December 3, 2019

Product:

Foundation™ Fetal Bovine Serum Heat Inactivated*

Triple 0.1µm sterile-filtered

Catalog #: 900-108 Lot #: A11H00K Origin: Mexico (100%)

Manufacture Date: Sep 2019 Expiration Date: Sep 2024

TEST	M ETHODOLOGY	SPECIFICATION	RESULTS
Biological Testing			
Endotoxin	USP<85>	<50.0 EU/mL	<0.500 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	10.8 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	1:32
Type II		Test and Report	1:8
Extraneous Viruses (FAb)			
Bluetongue Virus		Not Detected	Not Detected
Bovine Adenovirus		Not Detected	Not Detected
Bovine Parvovirus		Not Detected	Not Detected
Bovine Viral Diarrhea (cytor	Bovine Viral Diarrhea (cytopathic)		Not Detected
Bovine Viral Diarrhea (non-	Bovine Viral Diarrhea (non-cytopathic)		Tested
Bovine Syncytial Virus		Not Detected	Not Detected
Bovine Rabies Virus		Not Detected	Not Detected
Reovirus	1	Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>	260-350 m0sm/kg	311 mOsm/kg
pH @ RT	USP<791>	6.5 - 8.5	7.17



Biochemical Testing

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engini mexico (200%)		Expi	Expiration bato: oop 2024	
Test	METHODOLOGY	SPECIFICATION	RES	ULTS
Albumin		Test and Report	2.3	g/dL
Alkaline Phosphatase		Test and Report	227	U/L
ALT (SGPT)		Test and Report	5	U/L
AST (SGOT)		Test and Report	32	U/L
GGT		<10 U/L	5	U/L
Bilirubin, Total		Test and Report	0.2	mg/dL
BUN		Test and Report	16	mg/dL
Calcium		Test and Report	3.25	mM
Chloride		Test and Report	99	mM
Cholesterol		Test and Report	24	mg/dL
Cortisol		Test and Report	10.4	nM
Creatinine		Test and Report	2.9	mg/dL
Estradiol		Test and Report	104	pM
Glucose		Test and Report	4.6	mM
IgG	ELISA	<0.300 mg/mL**	0.255	mg/mL
Insulin		Test and Report	35.1	pM
Iron, Serum		Test and Report	158	ug/dL
Phosphorus		Test and Report	2.9	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	137	mM
Testosterone		Test and Report	<0.03	nM
T3		Test and Report	1.65	nM
T4		Test and Report	158	nM
Triglycerides	3	Test and Report	61	mg/dL
Tetracycline		<4 ng/mL	Pass	
Uric Acid		Test and Report	2.5	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

^{*}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.