

Certificate of Analysis

Created August 21, 2019

Product:

Charcoal:Dextran Stripped Fetal Bovine Serum

Triple 0.1µm sterile-filtered

Catalog #: 100-119 Lot #: A02H02K Origin: United States

Manufacture Date: Jun 2019 Expiration Date: Jun 2024

TEST	M ETHODOLOGY	SPECIFICATION	RESULTS
Biological Testing)4	
Endotoxin	USP<85>	<10.0 EU/mL	<0.1 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	6.49 mg/dL
Microbiological Testing			
Sterility	USP<7.1>		(4)
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			1:1
Type II	15.		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 (cyl	topathic)	Not Detected	Not Detected
Bovine Viral Diarrhea (no	n-cytopathic)	Not Detected	Not Detected
Bovine Syncytial Virus		Not Detected	Not Detected
Bovine Rabies Virus		Not Detected	Not Detected
Reovirus	8	Not Detected	Not Detected
Physical Testing			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>	260-350 m0sm/kg	289 m0sm/kg
pH @ RT	USP<791>	6.5 – 8.5	7.42



Biochemical Testing

Product:

Charcoal:Dextran Stripped Fetal Bovine Serum

Triple 0.1µm sterile-filtered

Catalog #: 100-119 Lot #: A02H02K Origin: United States

Manufacture Date: Jun 2019 Expiration Date: Jun 2024

T EST	M ETHODOLOGY	SPECIFICATION		RESULTS		
			Pre-Strip	Post-Strip		
Albumin				1.7	g/dL	
Alkaline Phosphatase				180	U/L	
ALT (SGPT)				5	U/L	
AST (SGOT)				28	U/L	
G T		<10 U/L		3	U/L	
Bilirubin, Total				0.0	mg/dL	
BUN				16	mg/dL	
Calcium				2.9	mM	
Chloride				97	mM	
Cholesterol				31	mg/dL	
Cortisol			8.22	<5.5	nM	
Creatinine				0.0	mg/dL	
Estradiol			156	81.4	pМ	
Glucose				4.3	mM	
gG	ELISA	<0.300 mg/mL*		0.057	mg/mL	
nsulin			50.8	<16.4	рM	
ron, Serum				14 7	ug/dL	
Phosphorus				2.9	mM ₋	
Potassium				9.9	mM	
Progesterone			< 0.3	<0.3	nM	
Protein, Total	Biuret	2.5-6.0 g/dL	H	3.2	g/dL	
Sodium				135	mM	
estosterone			0.16	<0.03	nM	
3			2.11	<0.154	nM	
⁻ 4			232	90	nM	
riglycerides				57	mg/dL	
etracycline			Pending			
Jric Acid				0.0	mg/dL	

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

Results shown were obtained prior to heat inactivation by carefully performed methods believed to be reliable. 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 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

July 21 Aug 2019

VERIFIED BY/ DATE