

Created May 6, 2019

**Product:** 

BenchMark™ Fetal Bovine Serum **Heat Inactivated\*** 

Triple 0.1µm sterile-filtered

Catalog #: 100-106 Lot #: A75G00K

Origin: Nicaragua (100%)

**Manufacture Date: Mar 2019 Expiration Date: Mar 2024** 

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	TEST	<b>M</b> ETHODOLOGY	SPECIFICATION	RESULTS
	Biological Testing			
	Endotoxin	USP<85>	<10.0 EU/mL	<0.500 EU/mL
	Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	11.8 mg/dL
	Microbiological Testing			
	Sterility	USP<71>		
	Bacteria		Not Detected	Not Detected
26	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	1:1
	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 (cytopath	nic)	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	308 mOsm/kg
	pH @ RT	USP<791>	6.5 - 8.5	7.19



## **Certificate of Analysis**

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Test	<b>М</b> ЕТНОDOLOGY	Specification	RESULTS
Albumin		Test and Report	2.3 g/dL
Alkaline Phosphatase		Test and Report	279 U/L
ALT (SGPT)		Test and Report	5 U/L
AST (SGOT)		Test and Report	38 U/L
GGT		<10 U/L	5 U/L
Bilirubin, Total		Test and Report	0.2 mg/dL
BUN		Test and Report	18 mg/dL
Calcium		Test and Report	3.18 mM
Chloride	8	Test and Report	101 mM
Cholesterol		Test and Report	31 mg/dL
Cortisol		Test and Report	<5.5 nM
Creatinine		Test and Report	2.7 mg/dL
Estradiol		Test and Report	96.2 pM
Glucose		Test and Report	1.9 mM
IgG	ELISA	<0.300 mg/mL**	0.192 mg/mL
Insulin		Test and Report	35.1 pM
Iron, Serum		Test and Report	163 ug/dL
Phosphorus		Test and Report	2.5 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	139 mM
Testosterone		Test and Report	<0.03 nM
Т3		Test and Report	0.66 nM
T4		Test and Report	179 nM
Triglycerides		Test and Report	46 mg/dL
Tetracycline		<4 ng/mL	Pass
Uric Acid		Test and Report	0.8 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.

CREATED BY/ DATE

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**VERIFIED BY/ DATE**