



# Certificate of Analysis

Revised September 18, 2014

**Product:** **BenchMark™ Fetal Bovine Serum**  
Triple 0.1µm sterile-filtered

**Catalog #: 100-106**  
**Lot #: A60E01F**  
**Origin: Mexico**

**Manufacture Date: Jun 2014**  
**Expiration Date: Jun 2019**

TEST	METHODOLOGY	SPECIFICATION	RESULTS
<b>Biological Testing</b>			
Endotoxin	USP<85>	<10.0 EU/mL	0.478 EU/mL
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<20.0 mg/dL	12.96 mg/dL
<b>Microbiological Testing</b>			
Sterility	USP<71>		
Bacteria		Not Detected	Not Detected
Fungi		Not Detected	Not Detected
Mycoplasma	Barile, MF and Kern, J (1971)	Not Detected	Not Detected
<b>Viral Testing</b>			
	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			1:8
<b>Extraneous Viruses (FAb)</b>			
Bluetongue Virus		Not Detected	Not Detected
Bovine Adenovirus		Not Detected	Not Detected
Bovine Parvovirus		Not Detected	Not Detected
Bovine Viral Diarrhea (cytopathic)		Not Detected	Not Detected
Bovine Syncytial Virus		Not Detected	Not Detected
Bovine Rabies Virus		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
<b>Physical Testing</b>			
Electrophoretic Pattern	Cellulose Acetate	Normal	Normal
Osmolality	USP<785>	260-350 mOsm/kg	303 mOsm/kg
pH @ RT	USP<791>	6.5 – 8.5	7.16



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Albumin			2.2 g/dL
Alkaline Phosphatase			301 U/L
ALT (SGPT)			6.0 U/L
AST (SGOT)			31.0 U/L
Bilirubin, Total			0.2 mg/dL
BUN			16.0 mg/dl
Calcium			3.48 mM
Chloride			103 mM
Cholesterol			32 mg/dL
Cortisol			<5.52 nM
Creatinine			3.1 mg/dL
Estrogen			164.97 pM
Glucose			5.16 mM
IgG	ELISA		0.16 mg/mL
Insulin			55.49 pM
Iron, Serum			177 ug/dL
Phosphorus			3.17 mM
Potassium			>10.0 mM
Progesterone			<0.32 nM
Protein, Total	Biuret	2.5-6.0 g/dL	3.9 g/dL
Sodium			141 mM
Testosterone			0.42 nM
T3			1.22 nM
T4			178.9 nM
Triglycerides			68 mg/dL
Tetracycline			<4 ng/mL
Uric Acid			2.7 mg/dL

*Results shown were obtained 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 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.*