

### 1121 13th St. #187 Boulder, CO. 80302 USA

Web: www.upsilon-bio.net
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# **Certificate of Analysis**

### **Fetal Bovine Serum-South America**

Catalog Number: **FSA01-500** Lot Number: **UB2307** 

Storage Temperature: -5 to-20°C Expiration Date: 06/2028

Country of Origin: South America For In Vitro Diagnostic Use Triple 0.1 micron filtered

TEST	METHODOLOGY	SPECIFICATION	RESULTS			
Biological Testing						
Endotoxin	USP<85>	<10. EU/mL	2.6 EU/mL			
Hemoglobin	Fleming, AF and Woolf, AJ (1965)	<40.0 mg/dL	16.6 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, 1	13.47]				
Cytopathic Agents		Not Detected	Not Detected			
Hemadsorbing Agents		Not Detected	Not Detected			
Bovine Viral Diarrhea Ab Titer		Not Detected	Not Detected			
Type I			1:1			
Type II			1:1			



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TEST	METHODOLOGY	SPECIFICATION	RESULTS		
Extraneous Viruses (FAb)		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 Viral Diarrhea (non-cytopathic)		Not Detected	Not Detected		
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 mOsm/kg	309 mOsm/kg		
pH @ RT	USP<791>	6.7 – 8.0	7.12		
Albumin			2.3 g/dL		
Alkaline Phosphatase			258 U/L		
ALT (SGPT)			5.0 U/L		
AST (SGOT)			23.0 U/L		
Bilirubin, Total			0.2 mg/dL		
BUN			20.0 mg/dL		
Calcium			3.58 mM		
Chloride			103 mM		



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TEST	METHODOLOGY	SPECIFICATION	RESULTS
Cholesterol			40.0 mg/dL
Cortisol			7.75 nM
Creatinine			2.8 mg/dL
Estrogen			93.6 pM
Glucose			3.39 mM
IgG	ELISA		0.17 mg/mL
Insulin			40.3 pM
Iron, Serum			175 ug/dL
Phosphorus			8.6 mM
Potassium			11.6 mM
Progesterone			<0.16 nM
Protein, Total	Biuret	2.5-6.0 g/dL	3.6 g/dL
Sodium			141 mM
Testosterone			<0.04 nM
T3			1.76 nM
T4			202.1 nM
Triglycerides			66 mg/dL
Tetracycline			<4 ng/mL
Uric Acid			1.6 mg/dL

### **Cell Culture**

Cell Growth As Reported Desirable
Cloning Efficiency As Reported Desirable
Cytopathic Effects: None Pass



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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.

QUALITY ASSURANCE: M Van Oe

QUALITY CONTROL: Maultin fun

DATE: July 13, 2023