

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

<u>Web: www.upsilon-bio.net</u> <u>Fax: 001-323- 510-4660</u> <u>Phone: 001-323- 510-4660</u> <u>Email : info@upsilon-bio.com</u>

Certificate of Analysis

Fetal Bovine Serum-South America

Catalog Number: **BRA011-500**

Lot Number: UB220S

Storage Temperature: **-5 to-20**℃

Expiration Date: 08/2027

Country of Origin: **Brazil**

For In Vitro Diagnostic Use Triple 0.1 micron filtered

TEST	METHODOLOGY	SPECIFICATION	RESULTS		
Biological Testing					
Endotoxin	USP<85>	<10. EU/mL	3 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, 113.47]					
Cytopathic Agents		Not Detected	Not Detected		
Hemadsorbing		Not Detected	Not		
Agents			Detected		
Bovine Viral Diarrhea		Not Detected	Not		
Ab Titer			Detected		
Туре І			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
lgG	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
Т3			1.76 nM
T4			202.1 nM
Triglycerides			66 mg/dL
Tetracycline			<4 ng/mL
Uric Acid			1.6 mg/dL

Cell Culture

Cell GrowthAs ReportedDesirableCloning EfficiencyAs ReportedDesirableCytopathic Effects :NonePass



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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 Or QUALITY CONTROL: Maultintum

DATE:Sep.15, 2023



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