

CERTIFICATE OF ANALYSIS

Preferred Fetal Bovine Serum

Batch/Lot No:	N23M72	Expiration Date:	March 2028
Catalog No:	FBS007	Storage:	≤ -10°C
Country of Raw Material Origin:	Mexico	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	United States	Filtration:	Triple 0.1 µm membrane filtered
Date of Manufacture:	March 2023		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	198
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	12
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	76
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.2
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.9
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	31
Chloride	Chemistry Analyzer	mEq/L	As Reported	95
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.7
GGT	Chemistry Analyzer	IU/L	As Reported	7
Glucose	Chemistry Analyzer	mg/dL	As Reported	136
Hemoglobin	USP <90>	mg/dL	As Reported	11.98
IgG	ELISA	mg/L	As Reported	558.1
Iron	Chemistry Analyzer	ug/dL	As Reported	167
LDH	Chemistry Analyzer	IU/L	As Reported	510
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.7
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	309.0
pH	pH Meter		As Reported	7.3
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	10.3
Potassium	Chemistry Analyzer	mEq/L	As Reported	13.0
Sodium	Chemistry Analyzer	mEq/L	As Reported	134
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.8
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	67
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	15
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.7

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	732.0
Mycoplasma	PCR		Not Detected	Not Detected
Sterility				
Bacteria	9CFR 113.26		No Growth	No Growth
Fungi	9CFR 113.26		No Growth	No Growth

Antibiotics/Antimycotics

Test	Methodology	Specification	Results
Tetracycline	ng/mL	As Reported	1.50

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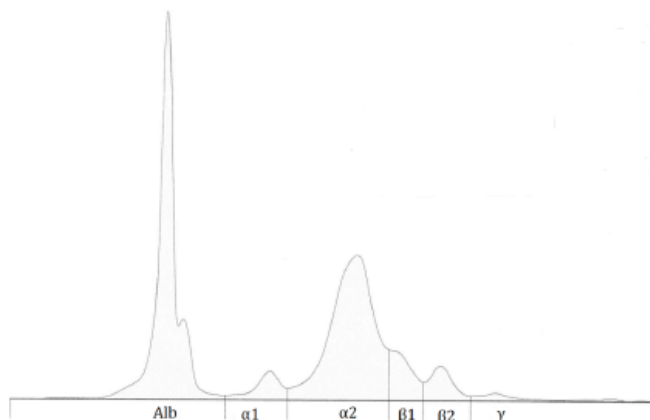
Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 1	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 3	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 5	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
BPV	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
BRSV	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
BVD, Cytopathic	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BVD, Non-Cytopathic	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Cytopathic (IBR)	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Hemadsorbing (PI3)	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Rabies	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
REO Virus	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected

Protein Electrophoresis

Test	Unit of Measure	Specification	Results
Albumin	g/dL	As Reported	1.6
Alpha Globulins	g/dL	As Reported	1.7
Beta Globulins	g/dL	As Reported	0.5
Gamma Globulins	g/dL	As Reported	0.1

Profile Electrophoresis



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Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	ug/dL	As Reported	1.11
Insulin	uIU/mL	As Reported	7.01
Progesterone	ng/mL	As Reported	< 0.06
T3	ng/dL	As Reported	233
T4	ug/dL	As Reported	13.2
Testosterone	ng/mL	As Reported	< 0.01

Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	144.9
Cell Type: MRC-5 Day 5	%	For Information	98.5
Cell Type: CHO K1 Day 3	%	For Information	140.2
Relative Colony Forming Efficiency	%	For Information	101.7
Absolute Colony Forming Efficiency	%	For Information	80.2
Relative Cloning Efficiency	%	For Information	104.1
Absolute Cloning Efficiency	%	For Information	39.6

Test results reviewed and approved by*



April 21, 2023

Approved by/Date



April 24, 2023

Verify by/Date

** Test results for this product may have been obtained from third-party certified testing facilities. Results are believed to be accurate but have not been verified by Neuromics. Neuromics relies on the integrity of third-party testing facilities and conducts periodic audits of those facilities. Such audits provided Neuromics with sufficient confidence in the facilities' level of compliance.*