

CERTIFICATE OF ANALYSIS

Preferred Fetal Bovine Serum

Batch/Lot No:	N23M71	Expiration Date:	January 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:	January 2023		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	260
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	10
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	46
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.7
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	30.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	97.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.8
GGT	Chemistry Analyzer	IU/L	As Reported	5.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	84.0
Hemoglobin	USP <90>	mg/dL	As Reported	15.48
IgG	ELISA	mg/L	As Reported	251.6
Iron	Chemistry Analyzer	ug/dL	As Reported	166.0
LDH	Chemistry Analyzer	IU/L	As Reported	529.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.6
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	307.0
pH	pH Meter		As Reported	7.4
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	9.1
Potassium	Chemistry Analyzer	mEq/L	As Reported	12.1
Sodium	Chemistry Analyzer	mEq/L	As Reported	136.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.6
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	68.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	17.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.3

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	166.0
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	1.70

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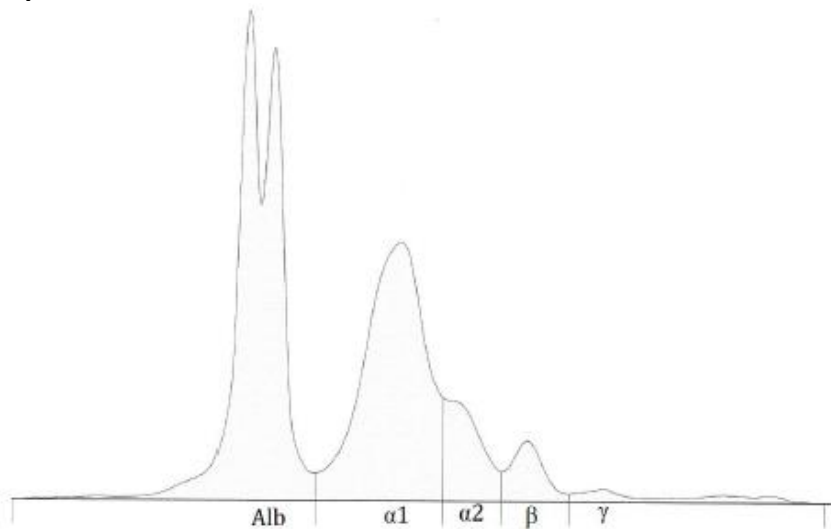
Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 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	1.7
Alpha Globulins	g/dL	As Reported	1.6
Beta Globulins	g/dL	As Reported	0.2
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	0.413
Insulin	uIU/mL	As Reported	7.710
Progesterone	ng/mL	As Reported	< 0.06
T3	ng/dL	As Reported	126.0
T4	ug/dL	As Reported	12.5
Testosterone	ng/mL	As Reported	0.010

Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	107.6
Cell Type: MRC-5 Day 5	%	For Information	125.3
Cell Type: CHO K1 Day 3	%	For Information	148.8
Relative Colony Forming Efficiency	%	For Information	93.6
Absolute Colony Forming Efficiency	%	For Information	73.7
Relative Cloning Efficiency	%	For Information	86.7
Absolute Cloning Efficiency	%	For Information	44.3

Test results reviewed and approved by*



February 20, 2023

Approved by/Date



February 20, 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.*