

NEUROMICS

CERTIFICATE OF ANALYSIS

Premium Fetal Bovine Serum

Batch/Lot No:	N22S21	Expiration Date:	August 2027
Catalog No:	FBS002	Storage:	≤ -10°C
Country of Raw Material Origin:	El Salvador	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	United States	Filtration:	Triple 0.1 µm membrane filtered
Date of Manufacture:	August 2022		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	308
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	10
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	42
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	14.7
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	36.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	99.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.7
GGT	Chemistry Analyzer	IU/L	As Reported	5.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	81.0
Hemoglobin	USP <90>	mg/dL	≤ 20	12.55
IgG	ELISA	mg/L	As Reported	140.7
Iron	Chemistry Analyzer	µg/dL	As Reported	175.0
LDH	Chemistry Analyzer	IU/L	As Reported	460.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.6
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	319.0
pH	pH Meter		As Reported	7.5
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	9.1
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.8
Sodium	Chemistry Analyzer	mEq/L	As Reported	139.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.8
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	69.0
Urea	Chemistry Analyzer	mg/dL	As Reported	18.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.6

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	< 1.0
Mycoplasma	Culture on Sensitive Media		Not Detected	Not Detected
Sterility				
Bacteria	9CFR 113.26		No Growth	No Growth
Fungi	9CFR 113.26		No Growth	No Growth

Antibiotics/Antimycotics

Test	Unit of Measure	Specification	Results
Tetracycline	ng/mL	As Reported	1.40

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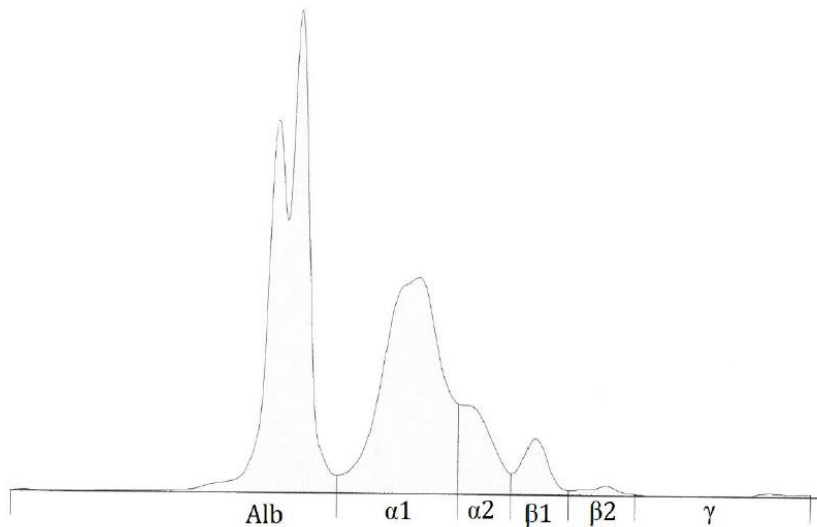
Viral Testing

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	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	1.8
Alpha Globulins	g/dL	As Reported	1.7
Beta Globulins	g/dL	As Reported	0.2
Gamma Globulins	g/dL	As Reported	0.0

Profile Electrophoresis



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Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	ug/dL	As Reported	0.223
Insulin	uIU/mL	As Reported	9.590
Progesterone	ng/mL	As Reported	< 0.06
T3	ng/dL	As Reported	105.0
T4	ug/dL	As Reported	16.1
Testosterone	ng/mL	As Reported	0.010

Biological Performance

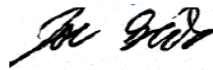
Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	114.5
Cell Type: MRC-5 Day 5	%	For Information	109.1
Cell Type: CHO K1 Day 3	%	For Information	98.3
Relative Colony Forming Efficiency	%	For Information	110.4
Absolute Colony Forming Efficiency	%	For Information	84.7
Relative Cloning Efficiency	%	For Information	88.8
Absolute Cloning Efficiency	%	For Information	41.1

Test Results Reviews and Approved By



October 5, 2022

Approved by/Date



October 7, 2022

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*