

NEUROMICS

CERTIFICATE OF ANALYSIS

Premium Fetal Bovine Serum

Batch/Lot No:	N23G22	Expiration Date:	October 2028
Catalog No:	FBS002	Storage:	≤ -10°C
Country of Raw Material Origin:	Guatemala	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	Guatemala	Filtration:	Triple 0.1 μm membrane filtered
Date of Manufacture:	October 2023		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	370
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	12
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	51
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	40.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	99.0
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	89.0
Hemoglobin	USP <90>	mg/dL	As Reported	11.90
IgG	ELISA	mg/L	As Reported	173.6
Iron	Chemistry Analyzer	μg/dL	As Reported	171.0
LDH	Chemistry Analyzer	IU/L	As Reported	695.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.8
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	316.0
pH	pH Meter		As Reported	7.3
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	9.2
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.4
Sodium	Chemistry Analyzer	mEq/L	As Reported	136.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	4.0
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	70.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	19.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.9

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	0.570
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

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Antibiotics/Antimycotics

Test	Methodology	Specification	Results
Tetracycline	ng/mL	As Reported	3.00

Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 3	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 5	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
BPV	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
BRSV	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
BVD, Cytopathic	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
BVD, Non-Cytopathic	9CFR 113.53, 113.46, 113.47	As Reported	Detected
Cytopathic (IBR)	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
Hemadsorbing (PI3)	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
Rabies	9CFR 113.53, 113.46, 113.47	Not Detected	Not Detected
REO Virus	9CFR 113.53, 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	1.9
Beta Globulins	g/dL	As Reported	0.2
Gamma Globulins	g/dL	As Reported	0.0

Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	ug/dL	For information	0.202
Insulin	uIU/mL	For information	7.590
Progesterone	ng/mL	For information	< 0.06
T3	ng/dL	For information	82.7
T4	ug/dL	For information	13.3
Testosterone	ng/mL	For information	0.01

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Biological Performance

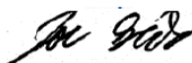
Test	Unit of Measure	Specification	Results
Cell Line: SP2/0-Ag14 Day 3	%	For information	102.6
Cell Line: MRC5 Day 5	%	For information	95.9
Cell Line: CHO K1 day 3	%	For information	118.7
Relative Colony Forming Efficiency	%	For information	94.1
Absolute Colony Forming Efficiency	%	For information	69.2
Relative Cloning Efficiency	%	For information	111.3
Absolute Cloning Efficiency	%	For information	46.4

Test Results Reviews and Approved By



January 5, 2024

Approved by/Date



January 8, 2024

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*