

CERTIFICATE OF ANALYSIS

Tet-Free Fetal Bovine Serum

Batch/Lot No:	N24N21-T	Expiration Date:	February 2029
Catalog No:	FBS002-T	Storage:	≤ -10°C
Country of Raw Material Origin:	Nicaragua	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	United States	Filtration:	Triple 0.1 µm membrane filtered
Date of Manufacture:	February 2024		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	340
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	10
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	54
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.6
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	30.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	99.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.6
GGT	Chemistry Analyzer	IU/L	As Reported	4.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	43.0
Hemoglobin	USP <90>	mg/dL	As Reported	11.47
IgG	ELISA	mg/L	As Reported	119.7
Iron	Chemistry Analyzer	µg/dL	As Reported	160.0
LDH	Chemistry Analyzer	IU/L	As Reported	674.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.6
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	308
pH	pH Meter		As Reported	7.5
Phosphorous	Chemistry Analyzer	mg/dL	As Reported	8.4
Potassium	Chemistry Analyzer	mEq/L	As Reported	10.6
Sodium	Chemistry Analyzer	mEq/L	As Reported	136
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.8
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	50.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	19.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	0.8

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	< 0.269
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	Unit of Measure	Specification	Results
Tetracycline	ng/mL	As Reported	< 1.0

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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	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	1.8
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	µg/dL	As Reported	< 0.20
Insulin	uIU/ml	As Reported	13.04
Progesterone	ng/ml	As Reported	< 0.06
T3	ng/dL	As Reported	56.4
T4	µg/dL	As Reported	14.6
Testosterone	ng/ml	As Reported	0.02

NEUROMICS

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Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	91.5
Cell Type: MRC-5 Day 5	%	For Information	98.2
Cell Type: CHO K1 Day 3	%	For Information	98.6
Relative Colony Forming Efficiency	%	For Information	107.5
Absolute Colony Forming Efficiency	%	For Information	69.7
Relative Cloning Efficiency	%	For Information	96.2
Absolute Cloning Efficiency	%	For Information	52.6

Test results reviewed and approved by*



April 5, 2024

Approved by/Date



April 9, 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.*