

CERTIFICATE OF ANALYSIS

Tet-Free Fetal Bovine Serum

Batch/Lot No:	N24N23-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	370
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	12
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	50
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	00.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.8
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	31
Chloride	Chemistry Analyzer	mEq/L	As Reported	99
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.8
GGT	Chemistry Analyzer	IU/L	As Reported	4
Glucose	Chemistry Analyzer	mg/dL	As Reported	46
Hemoglobin	USP <90>	mg/dL	As Reported	16.14
IgG	ELISA	mg/L	As Reported	104.4
Iron	Chemistry Analyzer	µg/dL	As Reported	156
LDH	Chemistry Analyzer	IU/L	As Reported	675
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.7
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	307
pH	pH Meter		As Reported	7.2
Phosphorous	Chemistry Analyzer	mg/dL	As Reported	8.3
Potassium	Chemistry Analyzer	mEq/L	As Reported	10.8
Sodium	Chemistry Analyzer	mEq/L	As Reported	138
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.8
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	47
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	19
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	0.358
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	TET ON invitro induction**	As Reported	Pass

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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	1.80
Alpha Globulins	g/dL	As Reported	1.80
Beta Globulins	g/dL	As Reported	0.20
Gamma Globulins	g/dL	As Reported	0.00

Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	µg/dL	As Reported	< 0.20
Insulin	uIU/ml	As Reported	5.280
Progesterone	ng/ml	As Reported	< 0.06
T3	ng/dL	As Reported	67.5
T4	µg/dL	As Reported	15.8
Testosterone	ng/ml	As Reported	< 0.01

NEUROMICS

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Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	103.0
Cell Type: MRC-5 Day 5	%	For Information	108.8
Cell Type: CHO K1 Day 3	%	For Information	116.2
Relative Colony Forming Efficiency	%	For Information	100.7
Absolute Colony Forming Efficiency	%	For Information	68.3
Relative Cloning Efficiency	%	For Information	110.3
Absolute Cloning Efficiency	%	For Information	55.7

Test results reviewed and approved by*



May 29, 2025

Approved by/Date



June 13, 2025

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.

** Each batch of tet-free FBS is tested to ensure it does not activate tetracycline-regulated gene expression systems. To access this, highly sensitive reporter cells engineered to express firefly luciferase in response to tetracyclines are incubated with the FBS for 24 hours. Only batches that exhibit luciferase activity at or below baseline levels (in the absence of tetracycline) and allow for full induction in the presence of tetracycline are approved as tet-free lots.