

CERTIFICATE OF ANALYSIS

Tet-Free Fetal Bovine Serum

Batch/Lot No:	N22N22-T	Expiration Date:	March 2027
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 um membrane filtered
Date of Manufacture:	March 2022		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	377
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	11
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	64
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	14.1
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	32.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	99.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	3.0
GGT	Chemistry Analyzer	IU/L	As Reported	3.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	47.0
Hemoglobin	USP <90>	mg/dL	≤ 20	15.05
IgG	ELISA	mg/L	As Reported	67.2
Iron	Chemistry Analyzer	ug/dL	As Reported	172.0
LDH	Chemistry Analyzer	IU/L	As Reported	733.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.6
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	304.0
pH	pH Meter		As Reported	7.4
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	8.3
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.0
Sodium	Chemistry Analyzer	mEq/L	As Reported	137.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.7
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	52.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	20.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.1

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	0.218
Mycoplasma	PCR		Not Detected	Not Detected
Sterility				
Bacteria	9CFR 113.26		No Growth	No Growth
Fungi	9CFR 113.26		No Growth	No Growth

Antibiotic

Test	Unit of Measure	Specification	Results
Tetracycline	ng/ml	As Reported	<1.0

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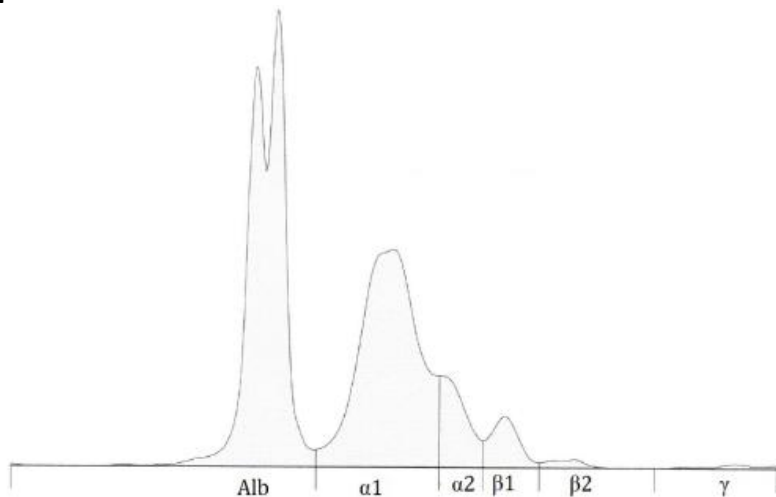
Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 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	1.7
Alpha Globulins	g/dL	As Reported	1.8
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
T3	ng/dL	As Reported	66.3
T4	ug/dL	As Reported	13.7

Biological Performance

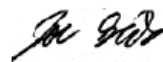
Test	Unit of Measure	Specification	Results
Cell Tine: SP2/0-Ag14 Day 3	%	For Information	112.0
Cell Tine: MRC-5 Day 5	%	For Information	97.5
Cell Type: CHO K1 Day 3	%	For Information	113.8
Relative Colony Forming Efficiency	%	For Information	106.4
Absolute Colony Forming Efficiency	%	For Information	74.7
Relative Cloning Efficiency	%	For Information	98.9
Absolute Cloning Efficiency	%	For Information	45.3

Test results reviewed and approved by*



April 1, 2022

Approved by/Date



April 19, 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.