

**CERTIFICATE OF ANALYSIS**

**Tet-Free Fetal Bovine Serum**

<b>Batch/Lot No:</b>	N21U17-T	<b>Expiration Date:</b>	June 2026
<b>Catalog No:</b>	FBS001-T	<b>Storage:</b>	≤ -10°C
<b>Country of Raw Material Origin:</b>	United States	<b>Appearance:</b>	Clear straw to amber liquid
<b>Country of Final Manufacturing:</b>	United States	<b>Filtration:</b>	Triple 0.1 um membrane filtered
<b>Date of Manufacture:</b>	June 2021		

**Chemical Parameters**

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	239.0
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	13.0
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	82.0
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.9
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	33.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	96.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.7
GGT	Chemistry Analyzer	IU/L	As Reported	3.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	122.0
Hemoglobin	USP <90>	mg/dL	≤ 20	11.95
IgG	ELISA	mg/L	As Reported	133.1
Iron	Chemistry Analyzer	ug/dL	As Reported	179.0
LDH	Chemistry Analyzer	IU/L	As Reported	726.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.7
Osmolality	Osmometer	mOsm/kg H <sub>2</sub> O	As Reported	308.0
pH	pH Meter		As Reported	7.2
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	10.2
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.7
Sodium	Chemistry Analyzer	mEq/L	As Reported	135.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.7
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	66.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	17.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.4

**Microbiological Parameters**

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	0.534
Mycoplasma	PCR		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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#### Antibiotic

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

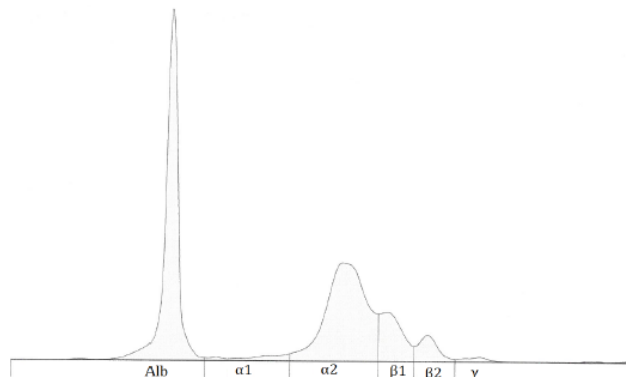
#### Viral Testing

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	As Reported	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	1.6
Alpha Globulins	g/dL	As Reported	1.5
Beta Globulins	g/dL	As Reported	0.6
Gamma Globulins	g/dL	As Reported	0.1

#### Profile Electrophoreses



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#### Hormone Panel

Test	Unit of Measure	Specification	Results
T3	ng/dL	As Reported	150.0
T4	ug/dL	As Reported	13.7

#### Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/O-Ag14 Day 3	%	For Information	96.6
Cell Type: MRC-5 Day 5	%	For Information	117.5
Cell Type: CHO K1 Day 3	%	For Information	116.3
Relative Colony Forming Efficiency	%	For Information	119.3
Absolute Colony Forming Efficiency	%	For Information	89.7
Relative Cloning Efficiency	%	For Information	95.8
Absolute Cloning Efficiency	%	For Information	71.4

#### Test results reviewed and approved by\*



August 5, 2021

Approved by/Date



August 6, 2021

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.