

# NEUROMICS

## CERTIFICATE OF ANALYSIS

### Preferred Fetal Bovine Serum

<b>Batch/Lot No:</b>	N22U71	<b>Expiration Date:</b>	May 2027
<b>Catalog No:</b>	FBS007	<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 μm membrane filtered
<b>Date of Manufacture:</b>	May 2022		

#### Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	229
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	9
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	62
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.2
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.8
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	31.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	95.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.6
GGT	Chemistry Analyzer	IU/L	As Reported	5.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	92.0
Hemoglobin	USP <90>	mg/dL	As Reported	6.45
IgG	ELISA	mg/L	As Reported	100.5
Iron	Chemistry Analyzer	ug/dL	As Reported	173.0
LDH	Chemistry Analyzer	IU/L	As Reported	458.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.5
Osmolality	Osmometer	mOsm/kg H <sub>2</sub> O	As Reported	304.0
pH	pH Meter		As Reported	7.30
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	9.5
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.1
Sodium	Chemistry Analyzer	mEq/L	As Reported	136.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.6
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	59.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	14.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.6

#### Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	437.0
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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**Antibiotic**

Test	Methodology	Unit of Measure	Results
Tetracycline	As Reported	mg/mL	< 1.0

**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 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**

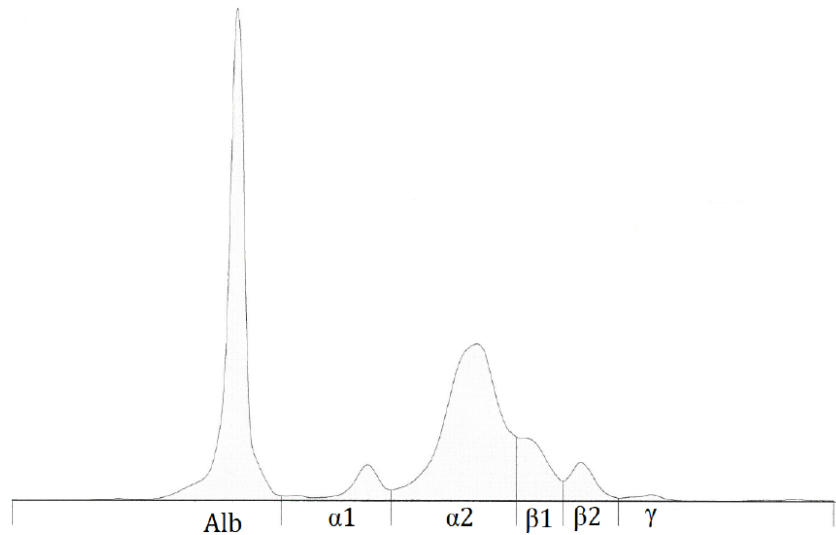
Test	Unit of Measure	Specification	Results
Albumin	g/dL	As Reported	1.5
Alpha Globulins	g/dL	As Reported	1.6
Beta Globulins	g/dL	As Reported	0.5
Gamma Globulins	g/dL	As Reported	0.1

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#### Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	ug/dL	As Reported	0.27
Insulin	uIU/mL	As Reported	7.29
Progesterone	ng/mL	As Reported	< 0.06
T3	ng/dL	As Reported	133.0
T4	ug/dL	As Reported	11.50
Testosterone	ng/mL	As Reported	0.01

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### Biological Performance

Test	Unit of Measure	Specification	Results
Cell Line: SP2/0-Ag14 Day 3	%	For Information	117.5
Cell Line: CHO K1 Day 3	%	For Information	109.4
Cell Line: MRC-5 Day 5	%	For Information	102.7
Relative Cloning Efficiency	%	For Information	101.2
Absolute Cloning Efficiency	%	For Information	44.8
Relative Colony Forming Efficiency	%	For Information	139.7
Absolute Colony Forming Efficiency	%	For Information	87.3

### Test results reviewed and approved by\*



June 27, 2022

Approved by/Date



June 28, 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.*