

# NEUROMICS

## CERTIFICATE OF ANALYSIS

### Qualified Fetal Bovine Serum

<b>Batch/Lot No:</b>	294M19	<b>Expiration Date:</b>	October 2024
<b>Catalog No:</b>	FBS006	<b>Storage:</b>	≤ -10°C
<b>Country of Raw Material Origin:</b>	Mexico	<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>	October 2019		

#### Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	245
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	7
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	30
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	< 0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.0
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	33
Chloride	Chemistry Analyzer	mEq/L	As Reported	96
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.5
GGT	Chemistry Analyzer	IU/L	As Reported	6
Glucose	Chemistry Analyzer	mg/dL	As Reported	98
Hemoglobin	USP <90>	mg/dL	As Reported	16.59
IgG	ELISA	mg/L	As Reported	167.10
Iron	Chemistry Analyzer	ug/dL	As Reported	158
LDH	Chemistry Analyzer	IU/L	As Reported	600
Osmolality	Osmometer	mOsm/kg H <sub>2</sub> O	260-340	299.0
pH	pH Meter		7.00-8.00	7.40
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	11.2
Potassium	Chemistry Analyzer	mEq/L	As Reported	13.3
Sodium	Chemistry Analyzer	mEq/L	As Reported	130
Total Protein	Chemistry Analyzer	g/dL	3.0-4.5	3.53
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	96
Urea	Chemistry Analyzer	mg/dL	As Reported	39
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.9

#### Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	> 100
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
Chlortetracycline	Not Detected	mg/mL	Not Detected
Doxicycline	Not Detected	mg/mL	Not Detected
Oxytetracycline	Not Detected	mg/mL	Not Detected
Tetracycline	Not Detected	mg/mL	Not Detected

#### Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53	Not Detected	Not Detected
Bovine Adeno 1	9CFR 113.53	Not Detected	Not Detected
Bovine Adeno 5	9CFR 113.53	Not Detected	Not Detected
BPV	9CFR 113.53	Not Detected	Not Detected
BRSV	9CFR 113.53	Not Detected	Not Detected
BVD	9CFR 113.53	As Reported	Not Detected
Cytopathic (IBR)	9CFR 113.53	Not Detected	Not Detected
Hemadsorbing (PI3)	9CFR 113.53	Not Detected	Not Detected
Rabies	9CFR 113.53	Not Detected	Not Detected
REO Virus	9CFR 113.53	Not Detected	Not Detected

#### Protein Electrophoresis

Test	Unit of Measure	Specification	Results
Albumin	g/dL	As Reported	1.59
Alpha Globulins	g/dL	As Reported	1.33
Beta Globulins	g/dL	As Reported	0.55
Gamma Globulins	g/dL	As Reported	0.06

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#### Biological Performance

Test	Unit of Measure	Specification	Results
Cell Line: L929-3rd day	%	For Information	108
Cell Line: L929-6th day	%	For Information	111
Cell Line: SP2-3rd day	%	For Information	115
Cell Line: SP2-6th day	%	For Information	119
Cell Line: HELA-3rd day	%	For Information	104
Cell Line: HELA-6th day	%	For Information	109
Cell Line: MRC5-3rd day	%	For Information	107
Cell Line: MRC5-6th day	%	For Information	59
Plating Efficiency-Cells Implanted		500	500
Plating Efficiency-# of Colonies		For Information	254
Plating Efficiency-%PE Absolut	%	For Information	51
Plating Efficiency-%PE Relative	%	For Information	86
Cloning Efficiency-Cells Implanted per Well		1	1
Cloning Efficiency-# of Colonies		For Information	43
Cloning Efficiency-%CE Absolute	%	For Information	45
Cloning Efficiency-%CE Relative	%	For Information	77

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

  
 November 21, 2019  
 Approved by/Date

  
 August 27, 2020  
 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.*