

NEUROMICS

CERTIFICATE OF ANALYSIS

Tet-Free Fetal Bovine Serum

Batch/Lot No:	101G19	Expiration Date:	April 2024
Catalog No:	FBS002-T	Storage:	≤ -10°C
Country of Raw Material Origin:	Guatemala	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	Guatemala	Filtration:	Triple 0.1 um membrane filtered
Date of Manufacture:	April 2019		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	417
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	9
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	33
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.19
Calcium	Chemistry Analyzer	mg/dL	As Reported	14.3
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	36
Chloride	Chemistry Analyzer	mEq/L	As Reported	101
Creatinine	Chemistry Analyzer	mg/dL	As Reported	3.0
GGT	Chemistry Analyzer	IU/L	As Reported	7
Glucose	Chemistry Analyzer	mg/dL	As Reported	82
Hemoglobin	USP <90>	mg/dL	≤ 20	17.52
IgG	ELISA	mg/L	As Reported	156.70
Iron	Chemistry Analyzer	ug/dL	As Reported	152
LDH	Chemistry Analyzer	IU/L	As Reported	656
Osmolality	Osmometer	mOsm/kg H ₂ O	260-340	206.0
pH	pH Meter		7.00-8.00	7.31
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	9.1
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.2
Sodium	Chemistry Analyzer	mEq/L	As Reported	138
Total Protein	Chemistry Analyzer	g/dL	3.0-4.5	3.65
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	62
Urea	Chemistry Analyzer	mg/dL	As Reported	35
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.4

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	< 0.2
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	Unit of Measure	Specification	Results
Tetracycline		Not Detected	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	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	1.65
Alpha Globulins	g/dL	As Reported	1.79
Beta Globulins	g/dL	As Reported	0.2
Gamma Globulins	g/dL	As Reported	0.01

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Biological Performance

Test	Unit of Measure	Specification	Results
Cell Line: L929-3rd day	%	For Information	125
Cell Line: L929-6th day	%	For Information	125
Cell Line: SP2-3rd day	%	For Information	80
Cell Line: SP2-6th day	%	For Information	90
Cell Line: HELA-3rd day	%	For Information	114
Cell Line: HELA-6th day	%	For Information	108
Cell Line: MRC5-3rd day	%	For Information	73
Cell Line: MRC5-6th day	%	For Information	106
Plating Efficiency- cells implanted		500	500
Plating Efficiency- # of colonies		For Information	151
Plating Efficiency- %PE absolut	%	For Information	30
Plating Efficiency- %PR relative	%	For Information	95
Cloning Efficiency- cells implanted per well		1	1
Cloning Efficiency- # of colonies		For Information	65
Cloning Efficiency- %CE absolut	%	For Information	68
Cloning Efficiency- %CE relative	%	For Information	94

Test results reviewed and approved by*


 _____ July 3, 2020
 Approved by/Date


 _____ July 31, 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.*