

CERTIFICATE OF ANALYSIS

Qualified Fetal Bovine Serum

Batch/Lot No:	N22M61	Expiration Date:	October 2027
Catalog No:	FBS006	Storage:	≤ -10°C
Country of Raw Material Origin:	Mexico	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	United States	Filtration:	Triple 0.1 µm membrane filtered
Date of Manufacture:	October 2022		

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	20
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	84
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.2
Calcium	Chemistry Analyzer	mg/dL	As Reported	14.3
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	34.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	94.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.8
GGT	Chemistry Analyzer	IU/L	As Reported	1.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	141.0
Hemoglobin	USP <90>	mg/dL	As Reported	39.00
IgG	ELISA	mg/L	As Reported	118.4
Iron	Chemistry Analyzer	ug/dL	As Reported	192.0
LDH	Chemistry Analyzer	IU/L	As Reported	701.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.8
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	310.0
pH	pH Meter		As Reported	7.3
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	10.9
Potassium	Chemistry Analyzer	mEq/L	As Reported	15.7
Sodium	Chemistry Analyzer	mEq/L	As Reported	134.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.7
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	88.0
Urea	Chemistry Analyzer	mg/dL	As Reported	17.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.7

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	603.0
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	Methodology	Unit of Measure	Results
Tetracycline	As Reported	mg/mL	< 1.0

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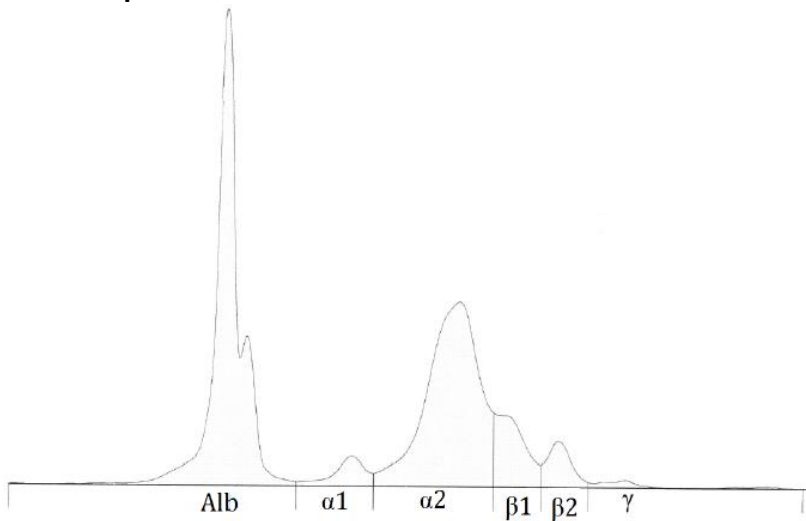
Viral Testing

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	Not 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	0.5
Gamma Globulins	g/dL	As Reported	0.1

Profile Electrophoresis



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Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	ug/dL	As Reported	< 0.20
Insulin	uIU/mL	As Reported	7.940
Progesterone	ng/mL	As Reported	< 0.06
T3	ng/dL	As Reported	160.0
T4	ug/dL	As Reported	12.2
Testosterone	ng/mL	As Reported	< 0.01

Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/O-Ag14 Day 3	%	For Information	131
Cell Type: MRC-5 Day 5	%	For Information	106.6
Cell Type: CHO K1 Day 3	%	For Information	108.6
Relative Colony Forming Efficiency	%	For Information	93.3
Absolute Colony Forming Efficiency	%	For Information	72.7
Relative Cloning Efficiency	%	For Information	96.5
Absolute Cloning Efficiency	%	For Information	42.7

Test results reviewed and approved by*



November 29, 2022

Approved by/Date



November 30, 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.*