

**CERTIFICATE OF ANALYSIS**

**Qualified Fetal Bovine Serum**

<b>Batch/Lot No:</b>	N18M61	<b>Expiration Date:</b>	June 2026
<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>	June 2018		

**Chemical Parameters**

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	196
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	6
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	54
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	11.3
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	34.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	96.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.5
GGT	Chemistry Analyzer	IU/L	As Reported	4.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	91.0
Hemoglobin	USP <90>	mg/dL	As Reported	10.61
IgG	ELISA	mg/L	As Reported	320.6
Iron	Chemistry Analyzer	ug/dL	As Reported	180.0
LDH	Chemistry Analyzer	IU/L	As Reported	564.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.8
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	9.8
Potassium	Chemistry Analyzer	mEq/L	As Reported	12.9
Sodium	Chemistry Analyzer	mEq/L	As Reported	136.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.7
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	73.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	17.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.2

**Microbiological Parameters**

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	USP <85>	EU/mL	As Reported	282.0
Mycoplasma	Barile		Not Detected	Not Detected
Sterility				
Bacteria	USP<71>		No Growth	No Growth
Fungi	USP<71>		No Growth	No Growth

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#### Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53	Not Detected	Not Detected
Bovine Adeno 3	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, Cytopathic	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	1.9
Alpha Globulins	g/dL	As Reported	1.3
Beta Globulins	g/dL	As Reported	0.2
Gamma Globulins	g/dL	As Reported	0.1

#### Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	95.1
Cell Type: Vero Day 5	%	For Information	124.2
Cell Type: CHO K1 Day 3	%	For Information	122.6
Relative Colony Forming Efficiency	%	For Information	89.5
Absolute Colony Forming Efficiency	%	For Information	59.7
Relative Cloning Efficiency	%	For Information	91.0
Absolute Cloning Efficiency	%	For Information	47.4

*Serum shelf life has been extended for three more years after the product was retested in 2023. New expiration date is June 2026.*



July 31, 2023

Approved by/Date

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### Qualified Fetal Bovine Serum

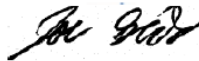
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#### Test results reviewed and approved by\*



July 31, 2023

Approved by/Date



August 1, 2023

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.*