

CERTIFICATE OF ANALYSIS

Preferred Fetal Bovine Serum

Batch/Lot No:	N24C71	Expiration Date:	November 2029
Catalog No:	FBS007	Storage:	≤ -10°C
Country of Raw Material Origin:	Costa Rica	Appearance:	Clear straw to amber liquid
Country of Final Manufacturing:	United States	Filtration:	Triple 0.1 µm membrane filtered
Date of Manufacture:	November 2024		

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	284
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	10
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	57
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	13.8
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	34
Chloride	Chemistry Analyzer	mEq/L	As Reported	97
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.8
GGT	Chemistry Analyzer	IU/L	As Reported	4
Glucose	Chemistry Analyzer	mg/dL	As Reported	72
Hemoglobin	USP <90>	mg/dL	As Reported	25.440
IgG	ELISA	mg/L	As Reported	136.7
Iron	Chemistry Analyzer	ug/dL	As Reported	161
LDH	Chemistry Analyzer	IU/L	As Reported	548
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.6
Osmolality	Osmometer	mOsm/kg H ₂ O	As Reported	311
pH	pH Meter		As Reported	7.3
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	8.9
Potassium	Chemistry Analyzer	mEq/L	As Reported	12.2
Sodium	Chemistry Analyzer	mEq/L	As Reported	136
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.9
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	76
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	18
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.8

Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	As Reported	1610
Mycoplasma	PCR		As Reported	Not Detected
Sterility				
Bacteria	9CFR 113.26		No Growth	No Growth
Fungi	9CFR 113.26		No Growth	No Growth

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Antibiotics/Antimycotics

Test	Methodology	Specification	Results
Tetracycline	ng/mL	As Reported	< 1.0

Viral Testing

Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Bovine Adeno 1	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Bovine Adeno 3	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Bovine Adeno 5	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BPV	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
BRSV	9CFR 113.53c, 113.46, 113.47	As Reported	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	Not Detected
Cytopathic (IBR)	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Hemadsorbing (PI3)	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
Rabies	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected
REO Virus	9CFR 113.53c, 113.46, 113.47	As Reported	Not Detected

Protein Electrophoresis

Test	Unit of Measure	Specification	Results
Albumin	g/dL	As Reported	1.80
Alpha Globulins	g/dL	As Reported	1.80
Beta Globulins	g/dL	As Reported	0.20
Gamma Globulins	g/dL	As Reported	0.00

Hormone Panel

Test	Unit of Measure	Specification	Results
Cortisol	ug/dL	As Reported	0.231
Insulin	uIU/mL	As Reported	7.26
Progesterone	ng/mL	As Reported	< 0.06
T3	ng/dL	As Reported	127.0
T4	ug/dL	As Reported	13.3
Testosterone	ng/mL	As Reported	< 0.01

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Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For Information	112.5
Cell Type: MRC-5 Day 5	%	For Information	88.9
Cell Type: CHO K1 Day 3	%	For Information	134.6
Relative Colony Forming Efficiency	%	For Information	99.0
Absolute Colony Forming Efficiency	%	For Information	69.2
Relative Cloning Efficiency	%	For Information	102.0
Absolute Cloning Efficiency	%	For Information	54.2

Test results reviewed and approved by*



January 14, 2025

Approved by/Date



January 15, 2025

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.*