

## CERTIFICATE OF ANALYSIS

### Premium Fetal Bovine Serum

<b>Batch/Lot No:</b>	N21H21	<b>Expiration Date:</b>	September 2026
<b>Catalog No:</b>	NB-26-01733	<b>Storage:</b>	≤ -10°C
<b>Country of Raw Material Origin:</b>	Honduras	<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>	September 2021		

#### Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	372
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	12
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	86
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	33.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	98.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.9
GGT	Chemistry Analyzer	IU/L	As Reported	5.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	88.0
Hemoglobin	USP <90>	mg/dL	≤ 20	11.18
IgG	ELISA	mg/L	As Reported	95.1
Iron	Chemistry Analyzer	µg/dL	As Reported	151.0
LDH	Chemistry Analyzer	IU/L	As Reported	676.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.7
Osmolality	Osmometer	mOsm/kg H <sub>2</sub> O	As Reported	310.0
pH	pH Meter		As Reported	7.2
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	8.9
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.1
Sodium	Chemistry Analyzer	mEq/L	As Reported	138.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.8
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	59.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	19.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.7

#### Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	< 0.100
Mycoplasma	PCR		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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#### Antibiotics/Antimycotics

Test	Unit of Measure	Specification	Results
Tetracycline	ng/mL	As Reported	1.30

#### Viral Testing

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

#### Protein Electrophoresis

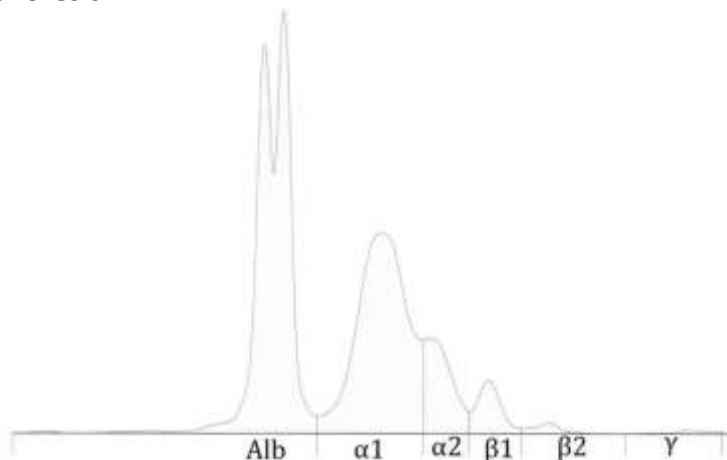
Test	Unit of Measure	Specification	Results
Albumin	g/dL	As Reported	1.8
Alpha Globulins	g/dL	As Reported	1.7
Beta Globulins	g/dL	As Reported	0.2
Gamma Globulins	g/dL	As Reported	0.0

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### Protein Electrophoresis



### Hormone Panel

Test	Unit of Measure	Specification	Results
T3	ng/dL	As Reported	108.0
T4	µg/dL	As Reported	14.7

### Biological Performance

Test	Unit of Measure	Specification	Results
Cell Line: SP2/0-Ag14 Day 3	%	For information	112.1
Cell Line: MRC-5 Day 5	%	For information	104.8
Cell Line: CHO K1 Day 3	%	For information	105.6
Relative Colony Forming Efficiency	%	For information	138.0
Absolute Colony Forming Efficiency	%	For information	70.8
Relative Cloning Efficiency	%	For information	121.1
Absolute Cloning Efficiency	%	For information	47.9

### Test results reviewed and approved by\*



October 25, 2021

Approved by/Date



November 2, 2021

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 Neo-Biotech. Neo-Biotech relies on the integrity of third-party testing facilities and conducts periodic audits of those facilities. Such audits provided Neo-Biotech with sufficient confidence in the facilities' level of compliance