

## CERTIFICATE OF ANALYSIS

### Tet-Free Fetal Bovine Serum

<b>Batch/Lot No:</b>	N19G23-T	<b>Expiration Date:</b>	February 2024
<b>Catalog No:</b>	NB-26-01827	<b>Storage:</b>	≤ -10°C
<b>Country of Raw Material Origin:</b>	Guatemala	<b>Appearance:</b>	Clear straw to amber liquid
<b>Country of Final Manufacturing:</b>	Guatemala	<b>Filtration:</b>	Triple 0.1 um membrane filtered
<b>Date of Manufacture:</b>	February 2019		

#### Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	419
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	10
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	33
Chloride	Chemistry Analyzer	mEq/L	As Reported	99
Creatinine	Chemistry Analyzer	mg/dL	As Reported	3.0
GGT	Chemistry Analyzer	IU/L	As Reported	7
Glucose	Chemistry Analyzer	mg/dL	As Reported	71
Hemoglobin	USP <90>	mg/dL	≤ 20	18.13
IgG	ELISA	mg/L	As Reported	120.70
Iron	Chemistry Analyzer	ug/dL	As Reported	153
LDH	Chemistry Analyzer	IU/L	As Reported	666
Osmolality	Osmometer	mOsm/kg H <sub>2</sub> O	260-340	309.0
pH	pH Meter		7.00-8.00	7.08
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	8.8
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.4
Sodium	Chemistry Analyzer	mEq/L	As Reported	134
Total Protein	Chemistry Analyzer	g/dL	3.0-4.5	3.75
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	64
Urea	Chemistry Analyzer	mg/dL	As Reported	37
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	2.2

#### Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	0.43
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	ng/ml	As Reported	<1.0

#### 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	1.71
Alpha Globulins	g/dL	As Reported	1.45
Beta Globulins	g/dL	As Reported	0.53
Gamma Globulins	g/dL	As Reported	0.05

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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	48
Cell Line: SP2-6th day	%	For Information	88
Cell Line: HELA-3rd day	%	For Information	93
Cell Line: HELA-6th day	%	For Information	95
Cell Line: MRC5-3rd day	%	For Information	102
Cell Line: MRC5-6th day	%	For Information	83
Plating Efficiency- cells implanted		500	500
Plating Efficiency- # of colonies		For Information	370
Plating Efficiency- %PE absolut	%	For Information	74
Plating Efficiency- %PR relative	%	For Information	96
Cloning Efficiency- cells implanted per well		1	1
Cloning Efficiency- # of colonies		For Information	67
Cloning Efficiency- %CE absolut	%	For Information	70
Cloning Efficiency- %CE relative	%	For Information	89

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

  
 \_\_\_\_\_ July 21, 2020  
 Approved by/Date

  
 \_\_\_\_\_ July 21, 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 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.*