



CERTIFICATE OF ANALYSIS

Product	Fetal Bovine Serum (FBS)
Product Code	A212059-0001
Country of Manufacturing	USA
Origin	US Origin
Date of Manufacture	January, 2022
Expiry Date	January, 2027
Storage	≤ -10°C

Appearance: Clear straw to amber liquid.

Filtration: Triple 0.1 µm membrane filtered.

Chemical Parameters

Test	Methodology	Unit of Measure	Specification	Results
Alkaline Phosphatase	Chemistry Analyzer	IU/L	As Reported	309
ALT (SGPT)	Chemistry Analyzer	IU/L	As Reported	9
AST (SGOT)	Chemistry Analyzer	IU/L	As Reported	53
Bilirubin	Chemistry Analyzer	mg/dL	As Reported	0.1
Calcium	Chemistry Analyzer	mg/dL	As Reported	14.2
Cholesterol	Chemistry Analyzer	mg/dL	As Reported	36.0
Chloride	Chemistry Analyzer	mEq/L	As Reported	99.0
Creatinine	Chemistry Analyzer	mg/dL	As Reported	2.8
GGT	Chemistry Analyzer	IU/L	As Reported	4.0
Glucose	Chemistry Analyzer	mg/dL	As Reported	82.0
Hemoglobin	USP <90>	mg/dL	≤ 20	13.33
IgG	ELISA	mg/L	As Reported	133.5
Iron	Chemistry Analyzer	µg/dL	As Reported	171.0
LDH	Chemistry Analyzer	IU/L	As Reported	630.0
Magnesium	Chemistry Analyzer	mEq/L	As Reported	2.7
Osmolality	Osmometer	mOsm/kg H2O	As Reported	313.0
pH	pH Meter		As Reported	7.2
Phosphorus	Chemistry Analyzer	mg/dL	As Reported	9.2
Potassium	Chemistry Analyzer	mEq/L	As Reported	11.7
Sodium	Chemistry Analyzer	mEq/L	As Reported	137.0
Total Protein	Chemistry Analyzer	g/dL	As Reported	3.7
Triglyceride	Chemistry Analyzer	mg/dL	As Reported	64.0
Urea Nitrogen (BUN)	Chemistry Analyzer	mg/dL	As Reported	18.0
Uric Acid	Chemistry Analyzer	mg/dL	As Reported	1.9

QF 21 Rev 2

V-2023

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Microbiological Parameters

Test	Methodology	Unit of Measure	Specification	Results
Endotoxin	LAL	EU/mL	≤ 10	0.442
Mycoplasma	PCR	-	Not Detected	Not Detected
Sterility				
Bacteria	9CFR 113.26	-	No Growth	No Growth
Fungi	9CFR 113.26	-	No Growth	No Growth

Antibiotics/Antimycotics

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

Viral Testing

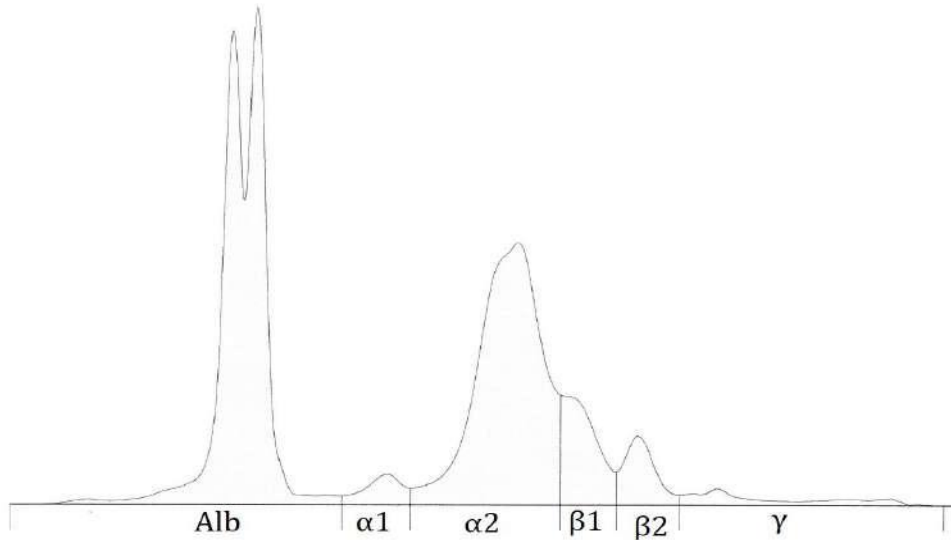
Test	Methodology	Specification	Results
Blue Tongue	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 3	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
Bovine Adeno 5	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
BPV	9CFR 113.53c, 113.46, 113.47	Not Detected	Not Detected
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	1.6
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



Hormone Panel

Test	Unit of Measure	Specification	Results
T3	ng/dL	As Reported	97.3
T4	µg/dL	As Reported	13.9

Biological Performance

Test	Unit of Measure	Specification	Results
Cell Type: SP2/0-Ag14 Day 3	%	For information	124.4
Cell Type: MRC-5 Day 5	%	For information	86.2
Cell Type: CHO K1 Day 3	%	For information	104.2
Relative Colony Forming Efficiency	%	For information	111.4
Absolute Colony Forming Efficiency	%	For information	55.2
Relative Cloning Efficiency	%	For information	102.7
Absolute Cloning Efficiency	%	For information	39.6



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This Signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: 

Title: General Manager

Date: September 05, 2023

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