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Certificate of Analysis

Trade Name:	Fetal Bovine Serum	**Expiration Date:**	2/1/2028
Description:	100% Fetal Bovine Serum	**Storage**	-10 to -30°C24
Lot Number:	M371501	**Manufacture Date:**	Janauary 2023
Catalog Numbers:	62-1300-1, 62-1300-1HI, 62-1300-1S	**Country of Final Processing:**	United States of America
Country of Origin:	Mexico	**Membrane Filtered:**	Triple 0.1µm

Product Integrity Analysis*

Test Description	Specification	Results	Method or Reference
Bacteria and Fungi/Sterility	No Growth	No Growth	USP <71>/EP 2.6.1/21 CFR
Electrophoretic ID	Characteristic	Characteristic	Gel Electrophoresis
Endotoxin	< 10 EU/mL	<1.0 EU/mL	USP <85>, Limulus Amebocyte Lysate (LAL)
Hemoglobin	< 30 mg/dL	16.7	Three-wavelength Polychromatic Analysis
Mycoplasma	Not Detected	Not Detected	Barile, M.F. and Kern, J., Proc. Soc. Exp. Biol., 1971;
Osmolality	270-330 mOsm/kg	309 mOsm/kg	USP <785>, Freezing point Depression
pH at room temperature	7.0-8.0	7.4	USP <791>
Total Protein	3.0-4.5 g/dL	3.7 g/dL	Spectrophotometry

Adventitious Agents*

Method: 9 CFR 113.53c with final analysis by 113.46 and 113.47

Adventitious Agent	Specification	Results	Adventitious Agent	Specification	Results
Blue Tongue Virus	Not Detected	Not Detected	Cytopathic Agents	Not Detected	Not Detected
Bovine Adenovirus, Group A (type 1 or	Not Detected	Not Detected	Hemadsorbing Agents	Not Detected	Not Detected
Bovine Adenovirus, Group B (type 5)	Not Detected	Not Detected	Infectious Bovine	Not Detected	Not Detected
Bovine Parvovirus	Not Detected	Not Detected	Parainfluenza 3 (PI3)	Not Detected	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected	Not Detected	Rabies Virus	Not Detected	Not Detected
Bovine Viral Diarrhea Virus (BVDV)	Not Detected	Not Detected	Reovirus	Not Detected	Not Detected

Serum Antibody Neutralization: Alpha-SN BVDV Genotype 1: 103.30 Alpha-SN BVDV Genotype 2: No Neutralization

Biochemical Analysis*

Method: 1. Photometric chemical analyzer 2. Ouchterlony double diffusion 3. Protein Electrophoresis 4. LC-MSMS - Listed for informational purposes only.

Component	Reported Result1		Component	Reported Result1		Electrophoretic Profile[3]		
A/G Ratio	2.36	Ratio	Iron	161	µg/dL	Fraction	% TP	g/dL
Albumin	2.6	g/dL	Magnesium	3.2	mg/dL	Albumin	57.3	2.14
Alkaline Phosphatase (ALP)	246	I.U./L	Phosphorus	9.8	mg/dL	Alpha 1/2	34.2	1.28
Aspartate Transferase (AST)	64	I.U./L	Potassium	##	meq/L	Beta	6.5	0.24
Bicarbonate	11.1	meq/L	Sodium	135	meq/L	Gamma	2	0.07
Bilirubin, Total	0.2	mg/dL	Triglyceride	68	mg/dL			
Blood Urea Nitrogen (BUN)	15	mg/dL	**Hormone-Tests**			**Tetracycline**		
Calcium	13.9	mg/dL	Testosterone baseline RIA	<0.0	ng/mL	Chlortetracyclin	<10 ppb	
Chloride	96.2	meq/L	Insulin: Bovine/Rodent - RIA	9.43	µIU/mL	Doxycycline	<20 ppb	
Cholesterol	30	mg/dL	Progesterone- RIA- Bovine	<0.0	ng/mL	Oxytetracycline	<10 ppb	
Creatine Kinase (CK)	400	I.U./L	T4 (Thyroxine) - Immulite	16.1	µg/dL	Tetracycline	<10 ppb	
Creatinine	2.75	mg/dL						
Gamma-Glutamyltransferase	5	I.U./L	**Precipitation-Test2**					
Globulin	1.1	g/dL	Bovine Antibody		Positive			
Glucose	161	mg/dL	Equine Antibody		Negative			
IgG by ELISA, Bovine	##	µg/mL	Porcine Antibody		Negative			

Intended Use and Affiliations

For further manufacturing use. NOT FOR HUMAN OR ANIMAL CONSUMPTION A Certificate of Suitability by the European Directorate for the Quality of Medicines and Healthcare (EDQM) is available upon request. Trade Control and Expert System Facility (TRACES) registered by the United States Department of Agriculture (USDA)-APHIS, facility number CO-TEC-0005.

Quality Assurance: For Evaluation Only Date: _____ Issue No. _____

*Results shown were obtained by independent test organizations according to agreed requirements and believed to be reliable. It is suggested that tests which are particularly important to the end user be repeated for validity. Some results may vary depending on methodology and other variables.