

CERTIFICATE OF ANALYSIS

Fetal Bovine Serum

Lot#: A18045

Manufactured Date: October 16, 2018
 Country of Final Processing: United States
 Filtration: Triple 0.1 µm filtered

Expiration Date: October 31, 2023
 Storage: ≤ -20°C

TEST	METHOD	UNIT	SPECIFICATIONS	RESULTS
Appearance		N/A	Clear Amber Liquid	Pass
Sterility		N/A	Negative for Growth	Not Detected
Bacteria and Fungi	USP<71>	N/A	Not Detected	Not Detected
Mycoplasma	Barile	N/A	Not Detected	Not Detected
DNA	Fluorochrome	N/A	Not Detected	Not Detected
Virus Testing	9CFR113.53			Not Detected
BAV1		N/A	Not Detected	Not Detected
BAV5		N/A	Not Detected	Not Detected
BVDV				Not Detected
Type 1, 2 BVD, Cytopathic BVD		N/A	Not Detected	
BPV		N/A	Not Detected	Not Detected
BRSV		N/A	Not Detected	Not Detected
BTV		N/A	Not Detected	Not Detected
Rabies		N/A	Not Detected	Not Detected
REO		N/A	Not Detected	Not Detected
CPE – Giemsa (IBR)		N/A	Not Detected	Not Detected
Hemadsorbntion Agents (PI3)		N/A	Not Detected	Not Detected
Serum Neutralization				
BVDV Antibody Type 1		N/A	Report	1:4
BVDV Antibody Type 2		N/A	Report	Undiluted
pH at RT	USP<791>	N/A	6.5-8.5	7.06
Osmolality	USP<785>	mOsm/Kg	260-350	263
Endotoxin	USP<85>	EU/mL	≤10.0	<0.1
Hemoglobin	Spectrophotometric	mg/dL	≤30.0	11.14
Total Protein	Biuret Method	gm/dL	2.5-4.0	3.5
Electrophoretic Pattern	Cellulose Acetate	N/A	Normal	Normal
Performance Testing	MTT Assay	N/A	>75% of Control	Pass
	Cytotoxicity	N/A	None Observed	Pass
	Hybridoma Screened	N/A	>75% of Control	Pass

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TEST	RESULTS	UNIT
BIOCHEMICAL ASSAY – PROTEINS/OTHER		
Alkaline Phosphatase	201	IU/L
AST (SGOT)	51	IU/L
ALT (SGPT)	6	IU/L
GGT	5	IU/L
Total Bilirubin	0.3	mg/dL
BUN	14	mg/dL
Cholesterol	27	mg/dL
Glucose	109	mg/dL
Uric Acid	2.6	mg/dL
Triglyceride	57	mg/dL
Creatinine	2.6	mg/dL
Bovine IgG (ELISA)	97.6	µg/mL
Total Protein	3.5	g/dL
Albumin	2.0	g/dL
Alpha 1, 2	1.3	g/dL
Beta	0.2	g/dL
Gamma	0.0	g/dL
BIOCHEMICAL ASSAY – TRACE METALS		
Calcium	13.0	mg/dL
Chloride	98	mEq/L
Phosphorus	9.5	mg/dL
Potassium	>10.0	mEq/L
Serum Iron	171	µg/dL
Magnesium	3.1	mg/dL
Sodium	136	mEq/L
BIOCHEMICAL ASSAY – HORMONES		
Testosterone	<0.01	ng/mL
Estradiol	39.0	pg/mL
Insulin	6.78	µIU/mL
Cortisol	0.308	µg/dL
Progesterone	<0.1	ng/mL
T3	136	ng/dL
T4	17.0	µg/dL

The material used in this product was collected in the United States. The animals received ante and post mortem veterinary inspection and were deemed fit for human consumption.

CAUTION: This material is intended for further manufacturing use.

THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE

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Print Name: Alex Sanschagrín

Print Name: Ernest Schrepfer

Date: 11/27/2018

Date: 27 NOV 2018

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