

Certificate of Analysis

Catalog Number: F4135

Lot Number: 19G462

Mfg Date: 24 JUL 19

Exp Date: 31 JUL 24

Reference:

Fetal Bovine Serum
Heat Inactivated
Mammalian and Insect Cell Culture Tested
Sourced in USA

Test Name	Specification	Result
pH	6.7 - 8.0	7.4
Appearance	Clear straw to amber colored liquid	Clear amber colored liquid
AVA (9CFR 113.53)	Bovine Adenovirus (type 3 and 5) - None detected	None detected (type 3 and 5)
	Bovine Parvovirus - None detected	None detected
	Blue Tongue Virus - None detected	None detected
	BVDV by FA - Tested	Tested
	Cytopathic Effect - None detected	None detected
	Hemadsorption - None detected	None detected
	Infectious Bovine Rhinotracheitis - None detected	None detected
	Parainfluenza 3 - None detected	None detected
	Rabies Virus - None detected	None detected
	Reovirus - None detected	None detected
	Bovine Respiratory Syncytial Virus - None detected	None detected
	Vesicular Stomatitis Virus - None detected	None detected
Bacteriophage Testing	Record (PFU/mL)	None detected PFU/mL
Bovine IgG	<= 1 mg/mL	0.092 mg/mL
Cell Lines	Record Cell Lines Used FIO	BHK-21 cell line
Chemical Analysis	Cholesterol - Report result	32 mg/dL
	Iron - Report result	181 mcg/dL
	Glucose - Report result	119 mg/dL
	Sodium - Report result	139 mEq/L
	Triglyceride - Report result	63 mg/dL
Cloning Assay	Pass	Pass
Country of Origin	Record	United States
Electrophoretic Profile	Albumin - Report result	1.8 g/dL
	Alpha 1 Globulin - Report result	0.0 g/dL
	Alpha 2 Globulin - Report result	1.3 g/dL
	Beta Globulin - Report result	0.8 g/dL
	Gamma Globulin - Report result	0.0 g/dL
Endotoxin	<= 10.00 EU/mL	<0.06 EU/mL
Hemoglobin	<= 20 mg%	8 mg%
Hormone Level	Estradiol - Report result	<10.0 pg/mL
	Insulin - Report result	3.29 mIU/mL



An ISO 9001 Certified
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Insect Cell Culture Test	Progesterone - Report result	<0.06 ng/mL
Insect Cell Lines	Testosterone - Report result	<0.01 ng/mL
Mycoplasma	Tested	Tested
	Record cell lines used	Sf9 cell line
	None detected (Broth Culture)	None detected
	None detected (DNA Fluorochrome Stain)	None detected
Osmolality	260 - 340 mOsm/kg H ₂ O	307 mOsm/kg H ₂ O
Serum Antibody Titer - BRSV	Report result	< 1:2
Serum Antibody Titer - BVDV	Report result	1:8
Serum Antibody Titer - IBR	Report result	< 1:2
Serum Antibody Titer - PI3	Report result	< 1:2
Serum Performance Test	Pass	Pass
Sterility per current USP	Negative	Negative
Tetracycline	Tetracycline - Record	None detected
Total Protein	3.0 - 4.5 g%	3.9 g%

C of A comments

Country of final product processing: United States

Intended Use

For R&D use only. Not for drug, household, or other uses.

Origin

The material used in this product was collected in the United States.
Animals used for collection of serum were USDA inspected and acceptable for slaughter.

Storage

Store at -20 C

Signature Kevin Allmon
Title Quality Assurance Associate
Date 09 OCT 19

Ref#: F4135.000000005 20191008 144326



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