

Certificate of Analysis

Catalog Number: F4135

Lot Number: 20H250

Mfg Date: 31 JUL 20

Exp Date: 31 JUL 25

Reference:

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

Test Name	Specification	Result
pH	6.7 - 8.0	7.2
Appearance	Clear straw to amber colored liquid	Clear amber colored liquid
AVA (9CFR 113.53)	Bovine Adenovirus (type 3 and 5) - None detected Bovine Parvovirus - None detected Blue Tongue Virus - None detected BVDV by FA - Tested Cytopathic Effect - None detected Hemadsorption - None detected Infectious Bovine Rhinotracheitis - None detected Parainfluenza 3 - None detected Rabies Virus - None detected Reovirus - None detected Bovine Respiratory Syncytial Virus - None detected Vesicular Stomatitis Virus - None detected	None detected None detected None detected Tested None detected None detected None detected None detected None detected None detected None detected None detected
Bacteriophage Testing	Record (PFU/mL)	None detected PFU/mL
Bovine IgG	</= 1 mg/mL	0.079 mg/mL
Cell Lines	Record Cell Lines Used FIO	BHK-21 cell line
Chemical Analysis	Cholesterol - Report result Iron - Report result Glucose - Report result Sodium - Report result Triglyceride - Report result	30 mg/dL 179 mcg/dL 84 mg/dL 139 mEq/L 65 mg/dL
Cloning Assay	Pass	Pass
Country of Origin	Record	United States
Electrophoretic Profile	Albumin - Report result Alpha 1 Globulin - Report result Alpha 2 Globulin - Report result Beta Globulin - Report result Gamma Globulin - Report result	1.6 g/dL 0.0 g/dL 1.2 g/dL 0.7 g/dL 0.0 g/dL
Endotoxin	</= 10.0 EU/mL	1.2 EU/mL
Hemoglobin	</= 20 mg%	8 mg%
Hormone Level	Estradiol - Report result Insulin - Report result	<10 pg/mL <2.36 mIU/mL



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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 H2O	309 mOsm/kg H2O
Serum Antibody Titer - BRSV	Report result	< 1:2
Serum Antibody Titer - BVDV	Report result	1:4
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%	3.6 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 James Bennett
Title Global Serum Quality Manager
Date 12 OCT 20

Ref#: F4135.000000006 20201007 112546



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