

Certificate of Analysis

Catalog Number: F4135
Lot Number: 20E043
Mfg Date: 20 MAY 20
Exp Date: 31 MAY 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	7.3
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	0.07 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	31 mg/dL 180 mcg/dL 95 mg/dL 141 mEq/L 64 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 1.4 g/dL 0.7 g/dL 0.1 g/dL
Endotoxin	</= 10.0 EU/mL	<0.5 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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Reference:

Insect Cell Culture Test
Insect Cell Lines
Mycoplasma

Osmolality
Serum Antibody Titer - BRSV
Serum Antibody Titer - BVDV
Serum Antibody Titer - IBR
Serum Antibody Titer - PI3
Serum Performance Test
Sterility per current USP
Tetracycline
Total Protein

Progesterone - Report result	<0.06 ng/mL
Testosterone - Report result	<0.01 ng/mL
Tested	Tested
Record cell lines used	Sf9 cell line
None detected (Broth Culture)	None detected
None detected (DNA Fluorochrome Stain)	None detected
260 - 340 mOsm/kg H2O	313 mOsm/kg H2O
Report result	< 1:2
Report result	1:4
Report result	< 1:2
Report result	< 1:2
Pass	Pass
Negative	Negative
Tetracycline - Record	None detected
3.0 - 4.5 g%	3.8 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 22 JUL 20

Ref#: F4135.000000006 20200707 141248



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