

Certificate of Analysis

Catalog Number: F4135
 Lot Number: 24E012
 Mfg Date: 07 JUN 24
 Exp Date: 30 JUN 29

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	None detected
AVA (9CFR 113.53)	Bovine Parvovirus - None detected	None detected
AVA (9CFR 113.53)	Blue Tongue Virus - None detected	None detected
AVA (9CFR 113.53)	BVDV by FA - Tested	Tested
AVA (9CFR 113.53)	Cytopathic Effect - None detected	None detected
AVA (9CFR 113.53)	Hemadsorption - None detected	None detected
AVA (9CFR 113.53)	Infectious Bovine Rhinotracheitis - None detected	None detected
AVA (9CFR 113.53)	Parainfluenza 3 - None detected	None detected
AVA (9CFR 113.53)	Rabies Virus - None detected	None detected
AVA (9CFR 113.53)	Reovirus - None detected	None detected
AVA (9CFR 113.53)	Bovine Respiratory Syncytial Virus - None detected	None detected
AVA (9CFR 113.53)	Vesicular Stomatitis Virus - None detected	None detected
Bacteriophage Testing	Record (PFU/mL)	None detected PFU/mL
Bovine IgG	<= 1 mg/mL	0.083 mg/mL
Cell Lines	Record Cell Lines Used FIO	BHK-21
Chemical Analysis	Cholesterol - Report result	29 mg/dL
Chemical Analysis	Iron - Report result	180 mcg/dL
Chemical Analysis	Glucose - Report result	103 mg/dL
Chemical Analysis	Sodium - Report result	135 mEq/L
Chemical Analysis	Triglyceride - Report result	82 mg/dL
Cloning Assay	Pass	Pass
Country of Origin	Record	United States
Electrophoretic Profile	Albumin - Report result	1.5 g/dL
Electrophoretic Profile	Alpha 1 Globulin - Report result	0.1 g/dL
Electrophoretic Profile	Alpha 2 Globulin - Report result	1.3 g/dL
Electrophoretic Profile	Beta Globulin - Report result	0.6 g/dL
Electrophoretic Profile	Gamma Globulin - Report result	0.0 g/dL
Endotoxin	<= 10.0 EU/mL	<0.5 EU/mL
Hemoglobin	<= 20 mg%	7 mg%
Hormone Level	Estradiol - Report result	13.6 pg/mL



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Hormone Level	Insulin - Report result	4.41 mIU/mL
Hormone Level	Progesterone - Report result	< 0.06 ng/mL
Hormone Level	Testosterone - Report result	0.01 ng/mL
Insect Cell Culture Test	Tested	Tested
Insect Cell Lines	Record cell lines used	Sf9
Mycoplasma	None detected (Broth Culture)	None detected
Mycoplasma	None detected (DNA Fluorochrome Stain)	None detected
Osmolality	260 - 340 mOsm/kg H ₂ O	315 mOsm/kg H ₂ O
Serum Antibody Titer - BRSV	Report result	< 1:2
Serum Antibody Titer - BVDV	Report result	1:2
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%	3.5 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 LISA DUNNE
Title Global Serum Quality Associate
Date 23 JUL 24

Ref#: F4135.000000006 20240722 091932

