

Certificate of Analysis

Product Name:	Fetal Bovine Serum
Product Description:	USA origin, sterile-filtered, suitable for cell culture, suitable for hybridoma
Product Brand:	Sigma-Aldrich
Product Number:	F2442

TEST	SPECIFICATION	LOT 18H165 RESULTS
Endotoxin	<= 10 EU/mL	0.2 EU/mL
Mycoplasma	None detected (Broth Culture)	None detected
Osmolality	260 - 340 mOsm/kg H2O	304 mOsm/kg H2O
AVA (9CFR113.53)	Bovine Adenovirus (type 3 and 5) -,None detected	None detected
	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
Total Protein	3.0 - 4.5 g%	3.6 g%
Chemical Analysis	Cholesterol - Report result	30 mg/dL
Hormone Level	Estradiol - Report result	28.4 pg/mL
Chemical Analysis	Iron - Report result	173 mcg/dL
	Glucose - Report result	126 mg/dL
Hormone Level	Insulin - Report result	0.9 mIU/mL
Chemical Analysis	Sodium - Report result	135 mEq/L
Hormone Level	Progesterone - Report result	<0.1 ng/mL
Sterility per current USP	Negative	Negative
Hormone Level	Testosterone - Report result	5 ng/dL
Tetracycline	Report Result	None detected
Chemical Analysis	Triglyceride - Report result	71 mg/dL
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

Cloning Assay	Pass	Pass
Mycoplasma	None detected (DNA Fluorochrome Stain)	None detected
Insect Cell Culture Test	Min CD 1.2X10E6, Max DT 33.5 hr	CD 2.9X10E6, DT 24.6 hr
Cell Lines	Record cell lines used	Sf9 cell line
pH	6.7 - 8.0	7.2
Bovine IgG	<= 1 mg/mL	0.103 mg/mL
Serum Performance Test	Pass	Pass
Cell Lines	Record Cell Lines Used FIO	BHK-21 cell line
Hemoglobin	<= 20 mg%	14 mg%
Electrophoric Profile	Albumin - Report Result	1.7 g/dL
	Alpha 1 Globulin - Report result	0.0 g/dL
	Alpha 2 Globulin - Report result	1.2 g/dL
	Beta Globulin - Report result	0.7 g/dL
	Gamma Globulin - Report result	0.0 g/dL
Country of Origin	Record	United States
Appearance	Clear straw to amber colored liquid	Clear amber colored liquid

COMMENTS

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

Approval Date and Time

9/13/2018 16:18:50

Manufact Date

7/19/2018

Expiratn Date

7/31/2023



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