

Product:	Fetal Bovine Serum	Description:	Heat Inactivated Premium, United States Origin
Catalog Number:	35-016-CF, 35-016-CV	Lot Number:	35016120
Date of Heat Inactivation:	26 JUN 2019	Heat Inactivation Type:	Bulk Tank Inactivation
Testing Performed on:	Heat Inactivated Product	Heat Inactivation Temperature:	56°C (±2°C) for 30 minutes

Parent Catalog Number:	N/A	Parent Lot Number:	N/A
Date of Manufacture:	27 JUN 2019	Date of Expiration:	JUN 2024
Country of Raw Material Origin:	United States	Country of Final Processing:	United States
Sterility Assurance Level:	10 ⁻³ (Triple 0.1 µm Filtered)	Storage:	-40°C to -10°C

Test	Method	Specification	Results	Units
Endotoxin	USP <85>	≤ 5.0	<0.1	EU/mL
Hemoglobin	Fleming and Woolf	≤ 25	5.43	mg/dL
Mycoplasma	Barile and Kern & Hoechst Fluorochrome Stain	Not Detected	Not Detected	N/A
Osmolality	USP <785>	260 – 350	303	mOsm/kg H ₂ O
pH	USP <791>	6.5 – 8.5	7.02	N/A
Sterility (Bacteria & Fungi)	USP <71> & EP 2.6.1	No Growth	No Growth	N/A
Total Protein	USP <1057>	3.0 – 4.5	3.5	g/dL
Gamma-Glutamyl Transferase (GGT)	Chemistry Analyzer	≤ 10	4	IU/L
Cell Growth Performance Testing	MTT Assay	Passed	Passed	N/A
Virus Testing	9 CFR Part 113.53c			
Bluetongue Virus		Not Detected	Not Detected	N/A
Bovine Adenovirus 1 & 5		Not Detected	Not Detected	N/A
Bovine Parvovirus		Not Detected	Not Detected	N/A
Bovine Respiratory Syncytial Virus		Not Detected	Not Detected	N/A
Bovine Viral Diarrhea Virus		As Reported	Not Detected	N/A
Rabies Virus		Not Detected	Not Detected	N/A
Reovirus		Not Detected	Not Detected	N/A
Cytopathogenic Agents (IBR)		Not Detected	Not Detected	N/A
Hemadsorbing Agents (PI3)		Not Detected	Not Detected	N/A
BVDV Serum Neutralization	Alpha Antibody Test			
BVDV Antibody Type 1		As Reported	10 ^{3.20}	TCID ₅₀ /mL
BVDV Antibody Type 2		As Reported	10 ^{3.20}	TCID ₅₀ /mL
Biochemical Testing - Proteins & Organic Compounds				
Alkaline Phosphatase		As Reported	4	IU/L
Blood Urea Nitrogen (BUN)		As Reported	14	mg/dL
Cholesterol		As Reported	29	mg/dL
Creatinine		As Reported	2.6	mg/dL
Glucose		As Reported	104	mg/dL

Glutamic Oxaloacetic Transaminase (AST)	As Reported	49	IU/L
Glutamic Pyruvic Transaminase (ALT)	As Reported	6	IU/L
High Density Lipoprotein Cholesterol (HDL)	As Reported	8	mg/dL
Immunoglobulin G (IgG)	As Reported	88.2	µg/mL
Low Density Lipoprotein Cholesterol (LDL)	As Reported	8	mg/dL
Total Bilirubin	As Reported	0.2	mg/dL
Triglyceride	As Reported	63	mg/dL
Uric Acid	As Reported	2.7	mg/dL
Biochemical Testing - Electrophoretic Profile	Cellulose Acetate Electrophoresis	Normal	Normal
Albumin	As Reported	1.9	g/dL
Alpha	As Reported	1.3	g/dL
Beta	As Reported	0.2	g/dL
Gamma	As Reported	0.1	g/dL
Biochemical Testing - Trace Metals			
Calcium	As Reported	12.9	mg/dL
Chloride	As Reported	98	mmol/L
Iron	As Reported	194	µg/dL
Magnesium	As Reported	3.1	mg/dL
Phosphorus	As Reported	9.6	mg/dL
Potassium	As Reported	>10.0	mmol/L
Sodium	As Reported	137	mmol/L
Biochemical Testing - Hormones			
Cortisol	As Reported	0.372	µg/dL
Estradiol	As Reported	24.8	pg/mL
Insulin	As Reported	<2.36	µIU/mL
Progesterone	As Reported	<0.1	ng/mL
Testosterone	As Reported	0.02	ng/mL
T3	As Reported	131	ng/dL
T4	As Reported	15.0	µg/dL

Notes:

For additional information on this Mediatech product, please contact our Technical Services department at (800) 235-5476 or via email at MTTechServ@corning.com.

This product was tested in accordance with Mediatech, Inc. specifications and procedures current as of date of manufacture. Testing procedures are maintained in compliance with the current versions of the USP and/or EP, where applicable.

Cell lines used in MTT Assay: 3T3, L929, MDCK, and Vero. Cell lines used in 9CFR Part 113.53c virus testing: MDBK and Vero.

For research or further manufacturing uses only. Not for use as an excipient. Not for therapeutic or diagnostic uses. Not for human or animal consumption. Utilization of this product apart from the labeled intended use may be a violation of local and/or Federal Law.

Product meets European Union requirements for the production of technical blood products.

Origin and BSE/TSE Statements:

The aforementioned lot was manufactured from fetal bovine blood collected from government approved harvest facilities located in the United States, a country recognized by the United States Department of Agriculture - Animal and Plant Health Inspection Service (USDA-APHIS) and the World Organization for Animal Health (OIE) as having a negligible risk of Bovine Spongiform Encephalopathy (BSE), a bovine-specific Transmissible Spongiform Encephalopathy (TSE). All fetal bovine serum is derived from fetuses collected from healthy bovine cows and heifers that have passed ante and post mortem inspection and were found free of contagious diseases.

The following signatures indicate the above material has met all quality specifications and has been reviewed by a Quality representative.

Written By/Date:

Jyh 17 AUG 2019

Reviewed By/Date:

David Ferguson
20 AUG 2019

