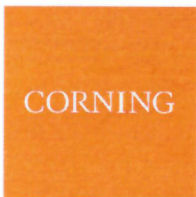


Certificate of Analysis

Product:	Fetal Bovine Serum	Description:	USDA Approved Origin
Catalog Number:	35-010-CF	Lot Number:	35010166
Date of Manufacture:	15 Jun 2018	Date of Expiration:	2023/06
Country of Raw Material Origin:	Mexico	Country of Final Processing:	United States
Triple 0.1 µm Filtered:	Sterility Assurance Level: 10 ⁻³	Storage:	-25°C to -15°C

Test	Method	Specification	Results	Units
Sterility (Bacteria & Fungi)	USP <71> EP 2.6.1	No Growth No Growth	No Growth	N/A N/A
Endotoxin	USP <85>	≤ 20	< 0.1	EU/mL
Mycoplasma	Barile and Kern Hoechst Fluorochrome Stain	Not Detected Not Detected	Not Detected	N/A N/A
pH	USP <791>	6.8 – 8.4	7.0	N/A
Osmolality	USP <785>	280 – 350	301	mOsm/kg H2O
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
Hemadsorption Agents (PI3)		Not Detected	Not Detected	N/A
Proteins / Other				
Alkaline Phosphatase		As Reported	244	IU/L
Blood Urea Nitrogen (BUN)		As Reported	16	mg/dL
Cholesterol		As Reported	28	mg/dL
Creatinine		As Reported	2.8	mg/dL
Gamma-Glutamyl Transferase (GGT)		As Reported	4	IU/L
Glucose		As Reported	99	mg/dL
Glutamic Oxaloacetic Transaminase (AST)		As Reported	45	IU/L
Glutamic Pyruvic Transaminase (ALT)		As Reported	6	IU/L
Hemoglobin	Fleming and Woolf	≤ 30	10	mg/dL
High Density Lipoprotein Cholesterol (HDL)		As Reported	9	mg/dL
Immunoglobulin G (IgG)	ELISA	As Reported	195.3	µg/mL



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Manassas, VA 20109
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www.cellgro.com

Low Density Lipoprotein Cholesterol (LDL)		As Reported	6	mg/dL
Total Bilirubin		As Reported	0.3	mg/dL
Total Protein	USP <1057>	3.0 -5.0	3.6	g/dL
Triglyceride		As Reported	65	mg/dL
Uric Acid		As Reported	3.0	mg/dL
Electrophoretic Profile	Cellulose Acetate Electrophoresis	Normal	Normal	N/A
Albumin		As Reported	2.1	g/dL
Alpha 1,2		As Reported	1.2	g/dL
Beta 1,2		As Reported	0.2	g/dL
Gamma 1,2		As Reported	0.1	g/dL
Trace Metals				
Calcium		As Reported	13.2	mg/dL
Chloride		As Reported	94	mEq/L
Iron		As Reported	180	µg/dL
Magnesium		As Reported	3.2	mg/dL
Phosphorus		As Reported	9.8	mg/dL
Potassium		As Reported	> 10.0	mEq/L
Sodium		As Reported	134	mEq/L
Hormones				
Cortisol		As Reported	0.348	µg/dL
Estradiol		As Reported	42.6	pg/mL
Insulin		As Reported	6.92	µIU/mL
Progesterone		As Reported	< 0.1	ng/mL
Testosterone		As Reported	< 0.01	ng/mL
T3		As Reported	131	ng/dL
T4		As Reported	18.0	µg/dL

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

Notes:

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.

This product was manufactured from fetal bovine blood collected from government approved harvest facilities located in Mexico. 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. This material was imported into the United States under a USDA/APHIS issued import permit.

For research and further manufacturing use only. Not for use as an excipient. Not for therapeutic or diagnostic use. 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.

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

Written By/Date: Van 05 SEP 2018

Reviewed By/Date: George 05 SEP 2018



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