

## Certificate of Analysis

<b>Description:</b> Fetal Bovine Serum (Heat Inactivated)	<b>Catalog #</b>	35-011-CV
	<b>Lot #</b>	35011133
	<b>Parent Part #:</b>	N/A
<b>Storage:</b> -25 to -15°C	<b>Parent Lot #:</b>	N/A
	<b>Date of Manufacture:</b>	August 3, 2018
	<b>Expiration Date:</b>	2023/08
	<b>Country of Raw Material Origin:</b>	Mexico
	<b>Country of Manufacture:</b>	USA

### Notes:

This product was tested in accordance with currently approved Mediatech, Inc. specifications and procedures. 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.

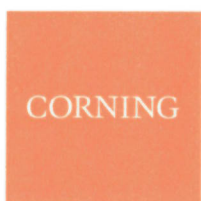
TEST PARAMETERS	SPECIFICATION	RESULT
Appearance (Visual Inspection)	Amber or caramel colored frozen liquid	Caramel colored frozen liquid
Triple 0.1 Micron-Filtered	As Reported	Triple 0.1 µm Filtered
Sterility (USP <71>)	Not Detected	Not Detected
(EP 2.6.1)	Not Detected	Not Detected
Sterility Assurance Level (SAL)	10 <sup>-3</sup>	10 <sup>-3</sup>



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Endotoxin (USP <85>)	≤ 20 EU/mL	< 0.1 EU/mL
Mycoplasma (Barile, MF and Kern, J (1971)) (Hoechst Fluorochrome Stain)	Not Detected Not Detected	Not Detected Not Detected
pH (USP <791>)	6.8 – 8.4	7.2
Osmolality (USP <785>)	280 – 350 mOsm/kgH <sub>2</sub> O	294 mOsm/kgH <sub>2</sub> O
Performance Testing	Passed > 75% to control	Pass
Virus Screening (9 CFR Part 113.53 c [113.46, 113.47])		
Bluetongue Virus	Not Detected	Not Detected
Bovine Adenovirus 1 & 5	Not Detected	Not Detected
Bovine Parvovirus	Not Detected	Not Detected
Bovine Respiratory Syncytial Virus	Not Detected	Not Detected
Bovine Viral Diarrhea Virus	As Reported	Not Detected
Rabies Virus	Not Detected	Not Detected
Reovirus	Not Detected	Not Detected
Cytopathogenic Agents (e.g. IBR)	Not Detected	Not Detected
Hemadsorbing Agents (e.g. PI3)	Not Detected	Not Detected
Proteins/Other		
Gamma-Glutamyl Transferase (GGT)	As Reported	6 IU/L
Alkaline Phosphatase	As Reported	12 IU/L
Blood Urea Nitrogen (BUN)	As Reported	15 mg/dL
Cholesterol	As Reported	28 mg/dL
Creatinine	As Reported	2.6 mg/dL

Glucose	As Reported	129 mg/dL
Glutamic Oxaloacetic Transaminase (SGOT) (AST)	As Reported	34 IU/L
Glutamic Pyruvic Transaminase (SGPT)(ALT)	As Reported	5 IU/L
Hemoglobin (USP <90> compliant Fleming and Woolf method)	≤ 30 mg/dL	6 mg/dL
High Density Lipoprotein Cholesterol (HDL)	As Reported	10 mg/dL
Immunoglobulin (IgG) (ELISA)	As Reported	237.5 µg/mL
Low Density Lipo-Protein Cholesterol (LDL)	As Reported	7 mg/dL
Total Bilirubin	As Reported	0.2 mg/dL
Total Protein (Biuret Method)	3.0 -5.0 g/dL	3.6 g/dL
Triglycerides	As Reported	57 mg/dL
Uric Acid	As Reported	3.7 mg/dL
Electrophoretic Profile (Cellulose Acetate Electrophoresis)	Typical OR Normal OR Representative of Fetal Bovine Serum	Normal
Albumin	As Reported	1.9 g/dL
Alpha – 1, 2	Report as Alpha 1,2 OR Report both Alpha 1 and Alpha 2 when applicable	1.3 g/dL
Beta	As Reported	0.3 g/dL
Gamma	As Reported	0.1 g/dL
Trace Metals		
Calcium	As Reported	12.6 mg/dL
Chloride	As Reported	95 mEq/L
Iron	As Reported	173 µg/dL
Magnesium	As Reported	3.0 mg/dL
Phosphorus	As Reported	9.3 mg/dL
Potassium	As Reported	> 10.0 mEq/L
Sodium	As Reported	131 mEq/L



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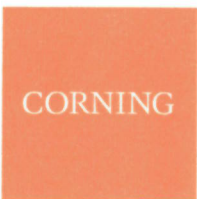
Hormones		
Cortisol	As Reported	1.51 µg/dL
Estradiol	As Reported	29.3 pg/mL
Insulin	As Reported	< 2.36 µIU/mL
Progesterone	As Reported	< 0.1 ng/mL
Testosterone	As Reported	< 0.01 ng/mL
T3	As Reported	201 ng/dL
T4	As Reported	16.0 µg/dL

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

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

Written By/Date: VM 28 SEP 2018

Reviewed By/Date: Yacampsterero / YL  
01 Oct 2018



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