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|--|---|-------------------------------------|----------------------------------|
| <b>Product:</b>                        | Fetal Bovine Serum                        | <b>Description:</b>                 | Regular,<br>USDA Approved Origin |
| <b>Catalog Number:</b>                 | 35-010-CV                                 | <b>Lot Number:</b>                  | 05920001                         |
| <b>Date of Manufacture:</b>            | 22 MAR 2019                               | <b>Date of Expiration:</b>          | 31 MAR 2024                      |
| <b>Country of Raw Material Origin:</b> | Nicaragua                                 | <b>Country of Final Processing:</b> | United States                    |
| <b>Sterility Assurance Level:</b>      | 10 <sup>-3</sup> (Triple 0.1 µm Filtered) | <b>Storage:</b>                     | -40°C to -10°C                   |

| Test   | Method                                       | Specification | Results      | Units                    |
|--|--|---------------|--------------|--------------------------|
| Endotoxin  | USP <85>                                     | ≤ 20          | 0.321        | EU/mL                    |
| Hemoglobin   | Fleming and Woolf                            | ≤ 30          | 10.50        | mg/dL                    |
| Mycoplasma   | Barile and Kern & Hoechst Fluorochrome Stain | Not Detected  | Not Detected | N/A                      |
| Osmolality   | USP <785>                                    | 260 – 350     | 298          | mOsm/kg H <sub>2</sub> O |
| pH   | USP <791>                                    | 6.5 – 8.5     | 7.21         | 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           | 5            | 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                      |
| Biochemical Testing - Proteins & Organic Compounds |  |               |              |                          |
| Alkaline Phosphatase                               |  | As Reported   | 307          | IU/L                     |
| Blood Urea Nitrogen (BUN)                          |  | As Reported   | 18           | mg/dL                    |
| Cholesterol  |  | As Reported   | 29           | mg/dL                    |
| Creatinine   |  | As Reported   | 2.7          | mg/dL                    |
| Glucose  |  | As Reported   | 43           | mg/dL                    |
| Glutamic Oxaloacetic Transaminase (AST)            |  | As Reported   | 43           | IU/L                     |
| Glutamic Pyruvic Transaminase (ALT)                |  | As Reported   | 5            | IU/L                     |
| High Density Lipoprotein Cholesterol (HDL)         |  | As Reported   | 10           | mg/dL                    |
| Immunoglobulin G (IgG)                             | ELISA  | As Reported   | 70.9         | µg/mL                    |
| Low Density Lipoprotein Cholesterol (LDL)          |  | As Reported   | 9            | mg/dL                    |
| Total Bilirubin                                    |  | As Reported   | 0.2          | mg/dL                    |
| Triglyceride                                       |  | As Reported   | 50           | mg/dL                    |
| Uric Acid  |  | As Reported   | 1.2          | mg/dL                    |
| Biochemical Testing - Electrophoretic Profile      | Cellulose Acetate Electrophoresis            | Normal        | Normal       | N/A                      |
| Albumin  |  | As Reported   | 2.0          | g/dL                     |
| Alpha  |  | As Reported   | 1.2          | g/dL                     |

|                                    |             |       |        |
|------------------------------------|-------------|-------|--------|
| Beta                               | As Reported | 0.2   | g/dL   |
| Gamma                              | As Reported | 0     | g/dL   |
| Biochemical Testing - Trace Metals |             |       |        |
| Calcium                            | As Reported | 12.8  | mg/dL  |
| Chloride                           | As Reported | 100   | mmol/L |
| Iron                               | As Reported | 167   | µg/dL  |
| Magnesium                          | As Reported | 3.0   | mg/dL  |
| Phosphorus                         | As Reported | 8.0   | mg/dL  |
| Potassium                          | As Reported | >10.0 | mmol/L |
| Sodium                             | As Reported | 137   | mmol/L |
| Biochemical Testing - Hormones     |             |       |        |
| Cortisol                           | As Reported | <0.20 | µg/dL  |
| Estradiol                          | As Reported | 36.7  | pg/mL  |
| Insulin                            | As Reported | 4.58  | µIU/mL |
| Progesterone                       | As Reported | <0.2  | ng/mL  |
| Testosterone                       | As Reported | <0.01 | ng/mL  |
| T3                                 | As Reported | 59.2  | ng/dL  |
| T4                                 | As Reported | 20.0  | µg/dL  |

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**Notes:**

For additional information on this Mediatech product, please contact our Technical Services department at (800) 492-1110 or via email at [scientificsupport@corning.com](mailto:scientificsupport@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, MDBK and Vero. Cell lines used in 9CFR Part 113.53c virus testing MBDK 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.

**Origin and BSE/TSE Statements:**

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

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

Written By/Date: Michael Munoz 03 APR 2020 Reviewed By/Date: Sarah Fogarty 03APR2020

