

Fetal Bovine Serum –Triple 0.1 µm Sterile Filtered, US origin

Product number: **FBS-BBT-XXX** Lot Number: **20140603FS**
 Date of Manufacture: **05/2013** Expiration date: **05/2018**
 Storage temperature: **-5 to -20°C**



Not for human or animal consumption

Basis for Release

| Chemical Analysis | | | | Microbiological Analysis | | | |
|-------------------|--------------------|---------------|--------------|--------------------------|----------------------------|--------------------|--------------------|
| Test | Method | Specification | Result | Test | Method | Specification | Result |
| Total Protein | Chemistry Analyzer | ≤ 45 g/L | 34 g/L | Sterility | 9CFR 113.26 | No growth | No Growth |
| Albumin | Chemistry Analyzer | ≤ 25.0 g/L | 9.0 g/L | Mycoplasma | Barile, MF & Kern J (1971) | Not Detected | Not Detected |
| Globulin | Chemistry Analyzer | As reported | 2.5 g/dL | Endotoxin | KCA | < 10.0 EU/ml | < 1.0 EU/ml |
| Bilirubin | Chemistry Analyzer | As reported | 0.3 mg/dL | Viral Analysis | | | |
| ALT | Chemistry Analyzer | As reported | 6 U/L | Test | Method | Specification | Result |
| AST | Chemistry Analyzer | As reported | 70 U/L | BVD Cytopathic | 9CFR 113.53 | Not Detected | Not Detected |
| Cholesterol | Chemistry Analyzer | As reported | 34.0 mg/dL | BVD Non- Cytopathic | 9CFR 113.53 | Tested | Tested |
| Glucose | Chemistry Analyzer | As reported | 73 mg/dL | PI3 | 9CFR 113.53 | Not Detected | Not Detected |
| Urea | Chemistry Analyzer | As reported | 16 mg/dL | IBR | 9CFR 113.53 | Not Detected | Not Detected |
| Creatinine | Chemistry Analyzer | As reported | 2.2 mg/dL | Bovine Adenovirus | 9CFR 113.53 | Not Detected | Not Detected |
| Sodium | Chemistry Analyzer | As reported | 135.0 mmol/L | REO Virus | 9CFR 113.53 | Not Detected | Not Detected |
| Potassium | Chemistry Analyzer | As reported | 9.5 mmol/L | Rabies | 9CFR 113.53 | Not Detected | Not Detected |
| Calcium | Chemistry Analyzer | As reported | 13.2 mg/dL | Blue Tongue | 9CFR 113.53 | Not Detected | Not Detected |
| Phosphorus | Chemistry Analyzer | As reported | 9.6 mg/dL | Identity Analysis | | | |
| Osmolality | Osmometer | As reported | 307 mOsm/kg | Test | Method | Specification | Result |
| Hemoglobin | CTQC12 | ≤ 25.0 mg/dL | 8.3 mg/dL | Serum Identity | Electrophoresis | Characteristic | Characteristic |
| pH | pH meter | 6.80 – 8.20 | 7.3 | Appearance | Visual | Clear yellow-amber | Clear yellow-amber |
| IgG | ELISA | As reported | 83.1 µg/mL | | | | |

STATEMENT OF ORIGIN

This serum has been derived from blood aseptically collected in approved abattoirs in the United States of America. The serum was aseptically processed and filter sterilized in the US. The country of origin of the crude blood (donor cow origin) is the United States.

Approval

| | | |
|----------------------------------------------------------|------------------------------------------------------|--------------------------|
| Quality Assurance – Print Name: <i>Emily Villegas</i> | Quality Assurance – Sign Name: <i>[Signature]</i> | Date: <i>06/16/14</i> |
|----------------------------------------------------------|------------------------------------------------------|--------------------------|



Certificate of Origin

Product: Fetal Bovine Serum

Part Number: FBS-BBT-XXX

Lot Number: 20140603FS

Origin: United States



This is to certify that the raw fetal bovine serum lots used in the manufacture of Fetal Bovine Serum, RMBIO Lot Number 20140603FS, were collected in the contiguous 48 United States at an USDA approve abattoir. Dams of the fetuses where inspected ante and post mortem and found to be free of contagious disease.

Quality Assurance

Date

A large, stylized handwritten signature in blue ink, written over a horizontal line.

06/16/14