



CERTIFICATE OF ANALYSIS
Dialyzed Fetal Bovine Serum
(Catalog Number 100-108)

Lot Number: A424049

Date of Manufacture: Jul2020

Product Expiry: Jul2025

Origin: United States

Storage Temperature: $\leq -10^{\circ}\text{C}$

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

Product Description: *Dialyzed Fetal Bovine Serum is sterile-filtered through a 0.1 μm filter prior to freezing.*

| Test | Methodology | Specification | Analysis |
|------------------------------------|---|-------------------|--------------|
| Biological Testing | | | |
| Endotoxin | USP <85> & EP 2.6.14 | <10.0 EU/mL | <0.1 EU/mL |
| Hemoglobin | USP <90> | <20.0 mg/dL | 11.17 mg/dL |
| Microbiological Testing | | | |
| Sterility | | | |
| Bacteria | USP <71> & EP 2.6.1 | No Growth | No Growth |
| Fungi | USP <71> & EP 2.6.1 | No Growth | No Growth |
| Mycoplasma | Barile and Kern & Hoechst Fluorochrome Stain | Not Detected | Not Detected |
| Viral Testing | | | |
| 9CFR113.53c[113.46,113.47] | | | |
| Cytopathic Agents | | Not Detected | Not Detected |
| Hemadsorbing Agents | | Not Detected | Not Detected |
| Extraneous Viruses (FAB) | | | |
| Bluetongue Virus | | Not Detected | Not Detected |
| Bovine Adenovirus | | Not Detected | Not Detected |
| Bovine Parvovirus | | Not Detected | Not Detected |
| Bovine Viral Diarrhea (Cytopathic) | | Not Detected | Not Detected |
| Bovine Respiratory Syncytial Virus | | Not Detected | Not Detected |
| Rabies Virus | | Not Detected | Not Detected |
| Reovirus | | Not Detected | Not Detected |
| Physical Testing | | | |
| Electrophoretic Pattern | | | |
| | Cellulose Acetate Electrophoresis | Normal | Normal |
| Osmolality | USP <785> & EP 2.2.35 | 260 – 350 mOsm/kg | 285 mOsm/kg |
| pH@RT | USP <791> & EP 2.2.3 | 6.5 – 8.5 | 7.14 |



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| | | | Pre-Strip | Post-Strip |
| Biochemistry | | | | |
| Albumin | Chemistry Analyzer | Test and Report | | 1.9 g/dL |
| Alkaline Phosphatase | | Test and Report | | 151 IU/L |
| ALT (SGPT) | | Test and Report | | 4 IU/L |
| AST (SGOT) | | Test and Report | | 24 IU/L |
| GGT | | <10 U/L | | 4 IU/L |
| Bilirubin, Total | | Test and Report | | 0.2 mg/dL |
| BUN | | Test and Report | | 0 mg/dL |
| Calcium | | Test and Report | | 1.9 mg/dL |
| Chloride | | Test and Report | | 142 mmol/L |
| Cholesterol | | Test and Report | | 28 mg/dL |
| Cortisol | ELISA | Test and Report | | 0.201 µg/dL |
| Creatinine | | Test and Report | | 0.0 mg/dL |
| Glucose | | Test and Report | | <10 mg/dL |
| IgG | | <0.300 mg/mL* | | 0.0616 mg/mL |
| Insulin | | Test and Report | | 3.21 µIU/mL |
| Iron, Serum | | Test and Report | | 171 µg/dL |
| Phosphorus | | Test and Report | | 0.3 mg/dL |
| Potassium | | Test and Report | | <1.0 mmol/L |
| Progesterone | | Test and Report | | <0.1 ng/mL |
| Protein, Total | | USP <1057> & EP 2.5.33 | 2.5 – 6.0 g/dL | |
| Sodium | | Test and Report | | 157 mmol/L |
| Testosterone | | Test and Report | | <0.01 ng/mL |
| T3 | | Test and Report | | 121 ng/dL |
| T4 | | Test and Report | | 14.0 µg/dL |
| Triglycerides | | Test and Report | | <10 mg/dL |
| Uric Acid | | Test and Report | | 0.1 mg/dL |



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Our fetal bovine serum meets all USDA requirements and has passed ante and post-mortem inspection. It is collected in countries recognized as being free of foot-and-mouth disease and rinderpest. The origin of all fetal bovine serum is traceable by lot number, date, and country of collection. Precipitates may develop in this product upon freezing and/or thawing; this occurrence does not impact culture performance. *Some geographic regions may test higher than 0.300 mg/mL. If this be the case, refer to GGT results less than 10 U/L to ensure FBS purity.

The testing that has been performed as part of this lot release has been reviewed by Quality Assurance personnel and has confirmed that the testing meets the specifications presented on this Certificate of Analysis.

Cassandra Baraza
Name

26 Aug 2024
Date

QC Associate II
Title