



## CERTIFICATE OF ANALYSIS

### BenchMark™ Fetal Bovine Serum

(Catalog Number 100-106)

Lot Number: A325015

Date of Manufacture: Nov2025

Product Expiry: Nov2030

Origin: Mexico

Storage Temperature: ≤ -10°C

For cell culture, further manufacturing or research use only. Not for direct therapeutic use.

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

| Test                               | Methodology                                     | Specification     | Analysis     |
|------------------------------------|---|-------------------|--------------|
| <b>Biological Testing</b>          |   |                   |              |
| Endotoxin                          | USP <85> & EP 2.6.14                            | <10.0 EU/mL       | <0.1 EU/mL   |
| Hemoglobin                         | USP <90>  | <20.0 mg/dL       | 10.87 mg/dL  |
| <b>Microbiological Testing</b>     |   |                   |              |
| Sterility                          | USP <71>  |                   |              |
| Bacteria                           |   | No Growth         | No Growth    |
| Fungi                              |   | No Growth         | No Growth    |
| Mycoplasma                         | Barile and Kern & Hoechst<br>Fluorochrome Stain | Not Detected      | Not Detected |
| <b>Viral Testing</b>               |   |                   |              |
| Cytopathic Agents                  | 9CFR 113.53c [113.46, 113.47]                   | 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 |
| <b>Physical Testing</b>            |   |                   |              |
| Electrophoretic Pattern            | Cellulose Acetate<br>Electrophoresis            | Normal            | Normal       |
| Osmolality                         | USP <785> & EP 2.2.35                           | 260 – 350 mOsm/kg | 319 mOsm/kg  |
| pH                                 | USP <791> & EP 2.2.3                            | 6.5 – 8.5         | 7.18         |
| <b>Biochemistry Testing</b>        |   |                   |              |
| Albumin                            |   | Test and Report   | 2.1 g/dL     |
| Alkaline Phosphatase               |   | Test and Report   | 251 IU/L     |
| ALT (SGPT)                         |   | Test and Report   | 6 IU/L       |
| AST (SGOT)                         |   | Test and Report   | 33 IU/L      |
| GGT                                | Chemistry Analyzer                              | <10 U/L           | 6 IU/L       |
| Bilirubin, Total                   |   | Test and Report   | 0.2 mg/dL    |
| BUN                                |   | Test and Report   | 16 mg/dL     |



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|----------------|------------------------|-----------------|-------------|
| Calcium        |                        | Test and Report | 13.7 mg/dL  |
| Chloride       |                        | Test and Report | 100 mmol/L  |
| Cholesterol    |                        | Test and Report | 30 mg/dL    |
| Cortisol       |                        | Test and Report | 0.68 µg/dL  |
| Creatinine     |                        | Test and Report | 3.0 mg/dL   |
| Glucose        |                        | Test and Report | 115 mg/dL   |
| IgG            | ELISA                  | <0.300 mg/mL*   | 245.9 mg/mL |
| Insulin        |                        | Test and Report | 8.26 µIU/mL |
| Iron, Serum    |                        | Test and Report | 129 µg/dL   |
| Phosphorus     |                        | Test and Report | 10.1 mg/dL  |
| Potassium      |                        | Test and Report | 13.1 mmol/L |
| Progesterone   |                        | Test and Report | <0.1 ng/mL  |
| Protein, Total | USP <1057> & EP 2.5.33 | 2.5 – 6.0 g/dL  | 3.7 g/dL    |
| Sodium         |                        | Test and Report | 138 mmol/L  |
| Testosterone   |                        | Test and Report | <0.01 ng/mL |
| T3             |                        | Test and Report | 157.0 ng/dL |
| T4             |                        | Test and Report | 11.0 µg/dL  |
| Triglycerides  |                        | Test and Report | 72 mg/dL    |
| Uric Acid      |                        | Test and Report | 3.1 mg/dL   |

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.

Levi Immooos

Name

23 DEC 2025

Date

QC Associate I

Title