



Product: **BenchMark™ Fetal Bovine Serum**
Heat Inactivated*
Triple 0.1µm sterile-filtered

Catalog #: 100-106

Lot #: A48G00J

Origin: Honduras (100%)

Manufacture Date: Jun 2018

Expiration Date: Jun 2023

| TEST | METHODOLOGY | SPECIFICATION | RESULTS |
|--|----------------------------------|-----------------|--------------|
| Biological Testing | | | |
| Endotoxin | USP<85> | <10.0 EU/mL | <0.500 EU/mL |
| Hemoglobin | Fleming, AF and Woolf, AJ (1965) | <20.0 mg/dL | 13.6 mg/dL |
| Microbiological Testing | | | |
| Sterility | | | |
| Bacteria | USP<71> | Not Detected | Not Detected |
| Fungi | | Not Detected | Not Detected |
| Mycoplasma | Barile, MF and Kern, J (1971) | Not Detected | Not Detected |
| Viral Testing | | | |
| 9 CFR 113.53c [113.46, 113.47] | | | |
| Cytopathic Agents | | Not Detected | Not Detected |
| Hemadsorbing Agents | | Not Detected | Not Detected |
| Bovine Viral Diarrhea Ab Titer | | | |
| Type I | | Test and Report | 1:1 |
| Type II | | Test and Report | 1:1 |
| 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 Viral Diarrhea (non-cytopathic) | | Test and Report | Tested |
| Bovine Syncytial Virus | | Not Detected | Not Detected |
| Bovine Rabies Virus | | Not Detected | Not Detected |
| Reovirus | | Not Detected | Not Detected |
| Physical Testing | | | |
| Electrophoretic Pattern | Cellulose Acetate | Normal | Normal |
| Osmolality | USP<785> | 260-350 mOsm/kg | 311 mOsm/kg |
| pH @ RT | USP<791> | 6.5 - 8.5 | 7.02 |

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|----------------------|-------------|-----------------|-------------|
| Albumin | | Test and Report | 2.3 g/dL |
| Alkaline Phosphatase | | Test and Report | 264 U/L |
| ALT (SGPT) | | Test and Report | 7 U/L |
| AST (SGOT) | | Test and Report | 71 U/L |
| GGT | | <10 U/L | 5 U/L |
| Bilirubin, Total | | Test and Report | 0.2 mg/dL |
| BUN | | Test and Report | 19 mg/dL |
| Calcium | | Test and Report | 3.35 mM |
| Chloride | | Test and Report | 100 mM |
| Cholesterol | | Test and Report | 31 mg/dL |
| Cortisol | | Test and Report | 8.77 nM |
| Creatinine | | Test and Report | 2.8 mg/dL |
| Estradiol | | Test and Report | 65.7 pM |
| Glucose | | Test and Report | 4.33 mM |
| IgG | ELISA | <0.300 mg/mL** | 0.146 mg/mL |
| Insulin | | Test and Report | 42.5 pM |
| Iron, Serum | | Test and Report | 166 µg/dL |
| Phosphorus | | Test and Report | 3.10 mM |
| Potassium | | Test and Report | >10.0 mM |
| Progesterone | | Test and Report | <0.159 nM |
| Protein, Total | Biuret | 2.5-6.0 g/dL | 3.6 g/dL |
| Sodium | | Test and Report | 136 mM |
| Testosterone | | Test and Report | <0.03 nM |
| T3 | | Test and Report | 1.72 nM |
| T4 | | Test and Report | 176 nM |
| Triglycerides | | Test and Report | 75 mg/dL |
| Tetracycline | | <4 ng/mL | Pass |
| Uric Acid | | Test and Report | 2.1 mg/dL |

For Cell Culture, further Manufacturing and Research use only. Not for direct Therapeutic use.

*Results shown were obtained by carefully performed methods believed to be reliable prior to heat inactivation. However, since some results may vary by methodology, it is suggested that tests for which results are particularly critical be repeated by the end user.

Our fetal bovine serum meets all USDA requirements and has passed ante- and post-mortem inspection by a licensed veterinarian. 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.

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