

Product: **Dialyzed Fetal Bovine Serum**
 Triple 0.1µm sterile-filtered

Catalog #: 100-108

Lot #: A54G02I

Origin: Mexico (100%)

Manufacture Date: Jul 2017

Expiration Date: Jul 2022

| TEST | METHODOLOGY | SPECIFICATION | RESULTS |
|--|----------------------------------|-----------------|--------------|
| Biological Testing | | | |
| Endotoxin | USP<85> | <10.0 EU/mL | 0.128 EU/mL |
| Hemoglobin | Fleming, AF and Woolf, AJ (1965) | <20.0 mg/dL | 10.61 mg/dL |
| Microbiological Testing | | | |
| Sterility | USP<71> | | |
| Bacteria | | 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 | 1:8 |
| 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 | 283 mOsm/kg |
| pH @ RT | USP<791> | 6.5 - 8.5 | 7.12 |



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|----------------------|-------------|-----------------|-------------|
| Albumin | | Test and Report | 2.0 g/dL |
| Alkaline Phosphatase | | Test and Report | 185 U/L |
| ALT (SGPT) | | Test and Report | 5 U/L |
| AST (SGOT) | | Test and Report | 37 U/L |
| GGT | | <10 U/L | 6 U/L |
| Bilirubin, Total | | Test and Report | 0.1 mg/dL |
| BUN | | Test and Report | 1 mg/dL |
| Calcium | | Test and Report | 0.73 mM |
| Chloride | | Test and Report | 142 mM |
| Cholesterol | | Test and Report | 31 mg/dL |
| Cortisol | | Test and Report | 12.5 nM |
| Creatinine | | Test and Report | 0 mg/dL |
| Estradiol | | Test and Report | 86.3 pM |
| Glucose | | Test and Report | 0.6 mM |
| IgG | ELISA | <0.300 mg/mL* | 0.118 mg/mL |
| Insulin | | Test and Report | <16.4 pM |
| Iron, Serum | | Test and Report | 181 ug/dL |
| Phosphorus | | Test and Report | 0.3 mM |
| Potassium | | Test and Report | 1.3 mM |
| Progesterone | | Test and Report | <0.3 nM |
| Protein, Total | Biuret | 2.5-6.0 g/dL | 3.6 g/dL |
| Sodium | | Test and Report | 154 mM |
| Testosterone | | Test and Report | <0.03 nM |
| T3 | | Test and Report | 1.71 nM |
| T4 | | Test and Report | 216 nM |
| Triglycerides | | Test and Report | <10 mg/dL |
| Tetracycline | | <4 ng/mL | Pass |
| Uric Acid | | Test and Report | 0.2 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. 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.

Septim A. OLM 09052018

CREATED BY/ DATE

Mark Weber 09052018

VERIFIED BY/ DATE