



# Certificate of Analysis

## Fetal Bovine Serum

Triple 0.1µm Sterile Filtered  
Fully Characterized

**Cat Number:** 25-550, 25-550S

**Lot:** 108672

**Country of Raw Material Origin:** 100% Mexico  
**Country of Final Processing:** 100% United States of America  
**Release Date:** Jan 15, 2020

### Microbial Analyses

Bacterial & Fungal Sterility (9CFR 113.26)  
Mycoplasma (Barile & Kern)  
Viral Testing (9 CFR 113.53c, 113.46)  
    Cytopathic Agents (IBR)  
    Hemadsorbing Agents (PI3)  
    Extraneous Virus (FAb)  
        Bluetongue  
        Bovine Adenovirus 1 & 5  
        Bovine Parvovirus  
        Bovine Viral Diarrhea  
        Bovine Respiratory Syncytial Virus  
        Rabies  
        Reovirus

### Results

Not Detected  
Not Detected  
  
Not Detected  
Not Detected  
  
Negative  
Negative  
Negative  
Negative  
Negative  
Negative  
Negative

### Microbial Analyses

Bacterial & Fungal Sterility (9CFR 113.26, USP<71>, EP 2.6.1)  
Sterility Assurance Level  
Mycoplasma (Barile & Kern)  
Viral Testing (9 CFR 113.53c, 113.46)  
    Cytopathic Agents (IBR)  
    Hemadsorbing Agents (PI3) Not Detected  
    Extraneous Virus (FAb)  
        Bluetongue  
        Bovine Adenovirus 1 & 5  
        Bovine Parvovirus  
        Bovine Viral Diarrhea  
        Bovine Respiratory Syncytial Virus  
        Rabies  
        Reovirus

### Results

Not Detected  
10<sup>-3</sup>  
Not Detected  
  
Not Detected  
  
Negative  
Negative  
Negative  
Negative  
Negative  
Negative  
Negative

Manufactured in an ISO 9001:2008, 13485:2003 certified facility in the USA using only the highest quality USP or multi-compendial grade materials available for cell culture. Cell Media products are sterile filtered and subjected to rigorous quality control testing processes including appearance, pH, osmolality, sterility (aerobic, anaerobic, bacteria, fungi), endotoxin, mycoplasma, cell culture growth promotion and viability (three subcultures).

**Physical Analyses**

Protein Electrophoresis (Cellulose Acetate)	
Alpha 1 + 2	1.2 g/dL
Beta 1 + 2	0.3 g/dL
Gamma 1 + 2	Not Detected
Osmolality (USP<785>)	310 mOsm/kg
pH (USP<791>)	7.07
Specific Gravity	1.021

**Enzymatic and Cell Culture Analyses**

Endotoxin (USP<85>, EP 2.6.14)	0.255 EU/mL
Immunoglobulin G (ELISA)	264 µg/mL

**Biochemical Profile**

Albumin	2.3 g/dL
Alkaline Phosphatase	206 U/L
ALT (SGPT)	7 U/L
AST (SGOT)	66 U/L
Bilirubin, Total	0.2 mg/dL
BUN	15 mg/dL
Calcium	12.9 mg/dL
Chloride	95 mEq/L
Cholesterol, Total	27 mg/dL
LDL	5 mg/dL
HDL	9 mg/dL
Cortisol	0.324 µg/dL
Creatinine	2.5 mg/dL
Estradiol	22.8 pg/mL
GGT	4 U/L
Glucose	108 mg/dL
Hemoglobin (Fleming & Woolf)	18.77 mg/dL
Insulin	7.00 µIU/mL
Iron, Total	158 µg/dL
Total Iron Binding Capacity	258 µg/dL
Saturation	61 %
Magnesium	3.0 mg/dL
Phosphorus	9.8 mg/dL
Potassium	> 10.0 mEq/L
Progesterone	< 0.06 ng/mL
Protein, Total	3.5 g/dL
Sodium	131 mEq/L
Testosterone	< 0.01 ng/mL
T3	131 ng/dL
T4	12.1 µg/dL
Triglycerides	63 mg/dL
Uric Acid	2.8 mg/dL

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