



# Certificate of Analysis

**Fetal Bovine Serum, Characterized**  
**Triple 0.1µm sterile filtered**  
**9 CFR Virus & Mycoplasma Tested**  
**Origin: 100% USA, Collected and Processed in USA**

**Catalog Number: 25-514**  
**Lot Number: 08223001**  
**Manufacture Date: 03/2023**  
**Expiration Date: 04/2028**

TEST	METHOD	SPECIFICATION	RESULT
Endotoxin	Current USP <85>, LAL	<10 EU/mL	<0.1 EU/mL
Hemoglobin	Current USP <90>	<30 mg/dL	8.68 mg/dL

### Microbiological Testing

TEST	METHOD	SPECIFICATION	RESULT
Sterility (Bacteria & Fungi)	USP <71> & EP 2.6.1	Not Detected	Not Detected
Mycoplasma	Barile, M.F. and Kern, J.	Not Detected	Not Detected

### Virus Testing

TEST	METHOD	SPECIFICATION	RESULT
	9 CFR 113.53c, 113.46		
Cytopathic Agents		Not Detected	Not Detected
Hemadsorbing Agents		Not Detected	Not Detected
Extraneous Virus (FAB)			
Bluetongue Virus		Not Detected	Not Detected
Bovine Adenovirus		Not Detected	Not Detected
Bovine Parvovirus		Not Detected	Not Detected
Bovine Respiratory Syncytial Virus		Not Detected	Not Detected
Rabies (RabdoVirus)		Not Detected	Not Detected
Reovirus		Not Detected	Not Detected
BVDV		As Reported	Not Detected

### Physical Analyses

TEST	METHOD	SPECIFICATION	UNITS	RESULT
Protein electrophoresis	Cellulose acetate			
Alpha 1 + 2		Check & Record	g/dL	1.1
Beta 1 + 2		Check & Record	g/dL	0.2
Gamma 1		Check & Record	g/dL	0.1
Osmolality	USP<785>	Check & Record	mOsm/Kg	302
pH	USP<791>	Check & Record	N/A	7.12

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Biochemical Assay	SPECIFICATION	UNITS	RESULT
Albumin	Check & Record	g/dL	1.9
Alkaline Phosphatase	Check & Record	U/L	215
Blood Urea Nitrogen (BUN)	Check & Record	mg/dL	14
Creatinine	Check & Record	mg/dL	2.2
Cholesterol	Check & Record	mg/dL	31
Glucose	Check & Record	mg/dL	80
AST (SGOT)	Check & Record	U/L	54
ALT (SGPT)	Check & Record	U/L	8
IgG (ELISA)	Check & Record	µg/mL	64.9
GGT	Check & Record	U/L	5
Low Density Lipoproteins (LDL)	Check & Record	mg/dL	7
High Density Lipoproteins (HDL)	Check & Record	mg/dL	9
Total Bilirubin	Check & Record	mg/dL	0.3
Total Protein	Check & Record	g/dL	3.2
Triglycerides	Check & Record	mg/dL	77
Uric Acid	Check & Record	mg/dL	1.9
Calcium	Check & Record	mg/dL	13
Chloride	Check & Record	mEq/L	97
Inorganic Phosphorus	Check & Record	mg/dL	10.4
Iron	Check & Record	µg/dL	1
Potassium	Check & Record	mEq/L	13.8
Sodium	Check & Record	mEq/L	133

Hormone Profile	SPECIFICATION	UNITS	RESULT
Insulin	Check & Record	µIU/mL	4.12
Progesterone	Check & Record	ng/mL	<0.1
Testosterone	Check & Record	ng/mL	106
T3	Check & Record	ng/mL	0.01
T4	Check & Record	µg/dL	26
Cortisol	Check & Record	µg/dL	<0.2

**Intended Use:** This product is intended for in vitro use only. This product is not intended for drug, human, or therapeutic use, and is not for human or animal consumption. **Country of Raw Material Origin:** This product was manufactured from fetal bovine blood collected exclusively from approved harvest facilities. All fetal bovine serum used in this product is derived from fetuses collected from cows that are of 100% United States origin, have passed ante- and post-mortem inspection. **Country of Final Processing:** This product was processed in the USA under the strict guidance of cGMP guidelines the standardization and traceability blueprint established by the International Serum Industry Association (ISIA). **NOTICE:** Turbidity or flocculent debris may develop upon thawing or storage. This condition does not adversely affect performance characteristics of the serum.

Quality Assurance

Date: 07/06/2023