

# Certificate of Analysis

**Product Name : Fetal Bovine Serum, Charcoal Stripped**

Cat No : F0700

Lot No : 12052311

Expiration Date : Dec. 2028

Country of Raw Material Origin : United States

Triple 0.1 µm Filtered

Country of Final Processing : United States

Store at -15 to -80°C in the dark

TEST	Method	Units	Specification	Result
Appearance		N/A	Clear, amber liquid	PASS
Bacteria and Fungi	USP<71>	N/A	Not Detected	Not Detected
Mycoplasma	Barile	N/A	Not Detected	Not Detected
DNA	Fluorochrome	N/A	Not Detected	Not Detected
Virus Testing	9CFR113.53			
BAV1		N/A	Not Detected	Not Detected
BAV5		N/A	Not Detected	Not Detected
BVDV				
Type 1, 2 BVD, Cytopathic BVD <sup>1</sup>		N/A	Not Detected	Not Detected
BPV		N/A	Not Detected	Not Detected
BRSV		N/A	Not Detected	Not Detected
BTV		N/A	Not Detected	Not Detected
Rabies		N/A	Not Detected	Not Detected
REO		N/A	Not Detected	Not Detected
CPE - Giemsa (IBR)		N/A	Not Detected	Not Detected
Hemadsorbntion Agents (PI3)		N/A	Not Detected	Not Detected
Serum Neutralization				
BVDV Antibody Type 1		N/A	Report	1 : 7
BVDV Antibody Type 2		N/A	Report	1 : 2
pH at RT	USP<791>	N/A	6.5 - 8.5	7.59
Osmolality	USP<785>	mOsm/Kg	260 - 350	291
Endotoxin	USP<85>	EU/mL	≤ 5.0	< 1.2
Hemoglobin	Spectrophotometric	mg/dL	≤ 20	6.33
Total Protein	Biuret Method	gm/dL	2.5 - 4.0	3.5
Electrophoretic Pattern	Cellulose Acetate	N/A	Normal	Normal
Performance Testing	MTT Assay <sup>2</sup>	N/A	>75% of Control	Pass
	Cytotoxicity	N/A	None Observed	Pass
	Hybridoma Screened <sup>3</sup>	N/A	>75% of Control	Pass

<sup>1</sup> Type 1, 2 Cytopathic BVD will cause damage to the cell. Use only FBS found free of this biotype.

<sup>2</sup> MTT Assay - Cell Lines Used

3T3 (Mouse - Embryonic Fibroblast)  
 L-929 (Mouse - Connective Tissue)  
 MDBK (Bovine - Kidney)  
 Vero (African Green Monkey - Kidney)

<sup>3</sup> Hybridoma Screening - Cell Line Used

Sp2/0 - Ag14 (Mouse - B cell/Myeloma)

TEST	Result	Unit
<b>BIOCHEMICAL ASSAY - Proteins/Other</b>		
Alkaline Phosphatase	354	IU/L
AST (SGOT)	46	IU/L
ALT (SGPT)	6	IU/L
Total Bilirubin	0.00	mg/dL
BUN	17	mg/dL
Cholesterol	29	mg/dL
Glucose	67	mg/dL
Uric Acid	1.2	mg/dL
Triglyceride	72	mg/dL
Creatinine	2.7	mg/dL
Beta Globulin	0.3	g/dL
Total Protein	3.5	g/dL
Albumin	2.4	g/dL
Alpha 1,2	1.0	g/dL
Beta	0.2	g/dL
Gamma	< 0.1	g/dL
<b>BIOCHEMICAL ASSAY - Trace Metals</b>		
Calcium	14.2	mg/dL
Chloride	91	mEq/L
Phosphorus	8.5	mg/dL
Potassium	11	mEq/L
Serum Iron	171	µg/dL
Magnesium	2.7	mg/dL
Sodium	129	mEq/L
<b>BIOCHEMICAL ASSAY - Hormones</b>		
Testosterone	<0.1	ng/mL
Estradiol	< 20.19	pg/mL
Insulin	5.93	µIU/mL
Cortisol	0.4	µg/dL
Progesterone	< 0.06	ng/mL
T3	72	ng/dL
T4	14.4	µg/dL



**Origin** : The material used in this product was collected in the United States. The animals received ante and post mortem veterinary inspection and were deemed fit for human consumption.

**Intended Use** : This product is not intended for human or therapeutic use.

**Q.C Acceptance Date** : Dec, 12-2023

Result shown were obtained by carefully performed methods believed to be reliable. However, it is suggested that tests for which results are particularly important be repeated by the user of this product, since some results may vary for specific tests depending upon methodology and other variables.

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