

# Certificate of Analysis

**Product Name : Fetal Bovine Serum, Premium, Heat Inactivated**

Cat No : F0601

Lot No : 03182411

Expiration Date : Apr. 2029

Country of Raw Material Origin : United States

Triple 0.1 µm Filtered

Country of Final Processing : United States

Store at -20°C in the dark

TEST	Method	Units	Specification	Result
Appearance		N/A	Clear, Straw to 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 : 2
BVDV Antibody Type 2		N/A	Report	<Undiluted
pH at RT	USP<791>	N/A	6.5 - 8.5	7.4
Osmolality	USP<785>	mOsm/Kg	260 - 350	294
Endotoxin	USP<85>	EU/mL	≤ 10.0	< 0.67
Hemoglobin	Spectrophotometric	mg/dL	≤ 20	6.6
Total Protein	Biuret Method	g/dL	2.5 - 4.0	3.6
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	222	IU/L
AST (SGOT)	31	IU/L
ALT (SGPT)	5.3	IU/L
Total Bilirubin	0.2	mg/dL
BUN	13	mg/dL
Cholesterol	34	mg/dL
Glucose	126	mg/dL
Uric Acid	3.1	mg/dL
Triglyceride	53	mg/dL
Creatinine	2.4	mg/dL
Bovine IgG(ELISA)	124	µg/mL
Total Protein	3.6	g/dL
Albumin	2	g/dL
Alpha 1,2	1.1	g/dL
Beta	0.3	g/dL
Gamma	0.1	g/dL
<b>BIOCHEMICAL ASSAY - Trace Metals</b>		
Calcium	13	mg/dL
Chloride	108	mEq/L
Phosphorus	9	mg/dL
Potassium	11	mEq/L
Serum Iron	177	µg/dL
Magnesium	2.8	mg/dL
Sodium	141	mEq/L
<b>BIOCHEMICAL ASSAY - Hormones</b>		
Testosterone	<0.07	ng/mL
Insulin	10.5	pg/mL
Cortisol	0.33	µIU/mL
Progesterone	0.09	µg/dL
T3	131	ng/mL
T4	12	ng/dL
		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** : Mar, 20. 2024

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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