

Certificate of Analysis

Product Name : FBS Opti-Gold , Performance Enhanced

Cat No : F0900

Lot No : 02072416

Expiration Date : Feb. 2029

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 ¹		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
Hemadsorbtion 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	7.48
Osmolality	USP<785>	mOsm/Kg	260 - 350	330
Endotoxin	USP<85>	EU/mL	≤ 5.0	< 0.68
Hemoglobin	Spectrophotometric	mg/dL	≤ 20	6.8
Total Protein	Biuret Method	g/dL	2.5 - 4.0	3.7
Electrophoretic Pattern	Cellulose Acetate	N/A	Normal	Normal
Performance Testing	MTT Assay ²	N/A	>75% of Control	Pass
	Cytotoxicity	N/A	None Observed	Pass
	Hybridoma Screened ³	N/A	>75% of Control	Pass

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

² MTT Assay - Cell Lines Used

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

³ Hybridoma Screening - Cell Line Used

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

TEST	Result	Unit
BIOCHEMICAL ASSAY - Proteins/Other		
Alkaline Phosphatase	182	IU/L
AST (SGOT)	33	IU/L
ALT (SGPT)	6.9	IU/L
Total Bilirubin	0.23	mg/dL
BUN	11	mg/dL
Cholesterol	40	mg/dL
Glucose	106	mg/dL
Uric Acid	1.9	mg/dL
Triglyceride	40	mg/dL
Creatinine	1.8	mg/dL
Bovine IgG	198	µg/mL
Total Protein	3.7	g/dL
Albumin	2.0	g/dL
Alpha 1,2	1	g/dL
Beta	0.38	g/dL
Gamma	< 0.17	g/dL
BIOCHEMICAL ASSAY - Trace Metals		
Calcium	10	mg/dL
Chloride	97	mEq/L
Phosphorus	7.8	mg/dL
Potassium	9.7	mEq/L
Serum Iron	184	µg/dL
Magnesium	2.3	mg/dL
Sodium	127	mEq/L
BIOCHEMICAL ASSAY - Hormones		
Testosterone	<0.1	ng/mL
Insulin	9.4	µIU/mL
Cortisol	0.38	µg/dL
Progesterone	<0.07	ng/mL
T3	107	ng/dL
T4	11	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 : Feb, 29-2024

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.

This document has been produced electronically and is valid without signature

Date of Print : 2. 29. 2024

