

# Certificate of Analysis

Catalog Number: 12103C  
Lot Number: 7D1658  
Mfg Date: 02 MAY 07  
Exp Date: 31 MAY 11

Reference:

Fetal Bovine Serum  
Sourced in USA

Test Name	Specification	Result
pH	6.8 - 8.1	7.3
Appearance	Clear, light straw-dark amber liquid	Clear, amber liquid
AVA (9CFR113.53)	Bovine Adenovirus - None detected	None detected
	Bovine Parvovirus - None detected	None detected
	Blue Tongue Virus - None detected	None detected
	Bovine Virus Diarrhea - None detected	None detected
	Cytopathic Effect - None detected	None detected
	Hemadsorption - None detected	None detected
	Infectious Bovine Rhinotracheitis - None detected	None detected
	Parainfluenza 3 - None detected	None detected
	Rabies Virus - None detected	None detected
	Reovirus - None detected	None detected
	Bovine Respiratory Syncytial Virus - None detected	None detected
	Vesicular Stomatitis Virus - None detected	None detected
Bacteriophage	(PFU/mL)- Record	None detected PFU/mL
Bovine IgG	(mcg/mL) - Record	270 mcg/mL
Cloning Efficiency	Tested	Tested
Electrophoretic Profile	A/G ratio - Record	2.9
	Albumin (g/dL) - Record	2.7 g/dL
	Alpha 1 Globulin (g/dL) - Record	0.1 g/dL
	Alpha 2 Globulin (g/dL) - Record	0.6 g/dL
	Beta Globulin (g/dL) - Record	0.2 g/dL
	Gamma Globulin (g/dL) - Record	<0.1 g/dL
Endotoxin	</= 10.0 EU/mL	<0.5 EU/mL
Growth Promotion - Raw Lots	Tested	Tested
Hemoglobin Test	</= 20 mg/dL	10 mg/dL
Location of Reserve Sample	Present	3 x 100 mL in FDA Bin #4079
Mycoplasma	None detected (Broth Culture)	None detected
	None detected (DNA Fluorochrome Stain)	None detected
Osmolality	260 - 330 mOsm/kg H2O	306 mOsm/kg H2O
Ouchterlony Test	Satisfactory (reaction to species of origin only)	Satisfactory
Plating Efficiency	Tested	Tested
Sterility	No microbial growth detected	No microbial growth detected
Total Protein	3.0 - 4.3 g/dL	3.7 g/dL
Virus Antibody Test BRSV	BRSV - Record titer	< 1:2

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Virus Antibody Test BVD	BVD - Record titer	1:4
Virus Antibody Test IBR	IBR - Record titer	< 1:2
Virus Antibody Test PI3	PI3 - Record titer	< 1:2

## Intended Use

For Research or For Further Manufacturing Use.  
THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

## Origin

The material used in this product was collected in the United States.  
Animals used for collection of serum were USDA inspected and acceptable for slaughter.

## Storage

-10 to -40 C

**Signature** Jennifer Cosens  
**Title** Quality Assurance Associate  
**Date** 12 JUN 07

**Ref#:** 12103C.00000002 20070612 131052