## **Certificate of Analysis**

Catalog Number: 12107C

Lot Number: Mfg Date: 7L0266R2 19 OCT 07 31 OCT 11

Reference:

Exp Date:

Fetal Bovine Serum Gamma Irradiated by SER-TAIN (TM) Process

Sourced in USA

Test Name	Specification	Result	
pH	6.8 - 8.1	7.0	
Appearance	Clear, light straw-dark amber liquid	Clear, amber liquid	
AVA (EP 04/2006:2262)	Bovine Adenovirus - None detected (Pre-Irr)	None detected	
	Bovine Parvovirus - None detected (Pre-Irr)	None detected	
	Blue Tongue Virus - None detected (Pre-Irr)	None detected	
	Bovine Virus Diarrhea - None detected (Pre-Irr)	None detected	
	Cytopathic Effect - None detected (Pre-Irr)	None detected	
	Hemadsorption - None detected (Pre-Irr)	None detected	
	Infectious Bovine Rhinotracheitis - None detected (Pre-Irr)	None detected	
	Parainfluenza 3 - None detected (Pre-Irr)	None detected	
	Rabies Virus - None detected (Pre-Irr)	None detected	
	Reovirus - None detected (Pre-Irr)	None detected	
	Bovine Respiratory Syncytial Virus - None detected (Pre-Irr)	None detected	
	Vesicular Stomatitis Virus - None detected (Pre-Irr)	None detected	
Bovine IgG	(mcg/mL) - Record	288 mcg/mL	
BVD Virus Test (Post-Irr)	None detected (Post-Irr)	None detected	
BVD Virus Titer	Record Titer	< 2 logs	
Chemical Profile	Bilirubin Total (mg/dL) - Record	0.2 mg/dL	
	Calcium (mg/dL) - Record	13.5 mg/dL	
	Cholesterol (mg/dL) - Record	35 mg/dL	
	Creatinine (mg/dL) - Record	2.8 mg/dL	
	Glucose (mg/dL) - Record	129 mg/dL	
	Serum Glutamyl Oxalactate Transaminase (IU/L) - Record	36 IU/L	
	Serum Glutamic Pyruvic Transaminase (IU/L) - Record	9 IU/L	
	Potassium (mEq/L) - Record	>10.0 mEq/L	

## **Certificate of Analysis**

Catalog Number: 12107C Lot Number: 7L0266

7L0266R2 19 OCT 07

Reference:

Mfg Date: Exp Date:

31 OCT 11

Cloning Efficiency

Effectiveness Test (EC 1774/2002)

Electrophoretic Profile

Endotoxin

Growth Promotion/Cytotoxicity

Hemoglobin Test Irradiation Certificate Irradiation Date Irradiation Dosage

Location of Reserve Sample

Mycoplasma (EP)

Osmolality
Ouchterlony Test

Plating Efficiency Sterility (EP/USP)

SAFC Bio Pre-Irradiation Lot No.

Total Protein

Total Volume of Manufactured Lot

Virus Antibody Test BRSV Virus Antibody Test BVD Virus Antibody Test IBR Virus Antibody Test PI3 Sodium (mEq/L) - Record

Phosphorus (mg/dL) - Record

Tested Satisfactory

Normal Pattern for Fetal Bovine Serum

A/G ratio - Record Albumin (g/dL) - Record Alpha 1 Globulin (g/dL) - Record Alpha 2 Globulin (g/dL) - Record Beta Globulin (g/dL) - Record Gamma Globulin (g/dL) - Record

</= 10.0 EU/mL

Tested
</= 20 mg/dL
Present
Date of Irradiation

25.0 - 35.0 kGy

Present

None detected (Broth Culture) (Pre-Irr)

None detected (DNA Fluorochrome Stain)

(Pre-Irr)

280 - 330 mOsm/kg H2O Satisfactory (reaction to species of

origin only)

Tested

No microbial growth detected (Pre-Irr)
Record SAFC Bio Pre-Irradiation Lot No.

3.0 - 4.3 g/dL

Record total volume (L)
BRSV - Record titer
BVD - </= 1:128
IBR - Record titer
PI3 - Record titer

136 mEq/L 10.3 mg/dL

Tested Satisfactory

Normal Pattern for Fetal Bovine Serum

2.4
2.6 g/dL
0.1 g/dL
0.6 g/dL
0.3 g/dL
<0.1 g/dL
<0.7 EU/mL
Tested
11 mg/dL
Present
10Apr08

NA

None detected None detected

25.1 - 33.0 kGy

312 mOsm/kg H2O

Satisfactory

Tested

No microbial growth detected

7L0266 3.7 g/dL 1708 L <1:2 < 1:2 <1:2 <1:2

## C of A comments

This product was gamma-irradiated at 25 - 35 kGy as part of a validated process for the inactivation of biological extraneous agents. This product remained in a frozen state at the time of irradiation and during the transportation process. Certificate(s) of Irradiation for this lot of material is/are attached to document the treatment. Due to processing constraints, more than one Certificate of Irradiation may result; however, all processing is verified to be

## **Certificate of Analysis**

Catalog Number: 12107C Lot Number:

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7L0266R2

19 OCT 07 31 OCT 11 Reference:

C of A comments

within the validated dose range.

**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

10 JUN 08

Ref#:

12107C.00000004 20080610 162156

