Certificate of Analysis

Catalog Number: 12007C

Lot Number: Mfg Date:

13K179R4 24 SEP 13

Exp Date:

30 SEP 18

SIGMA ALDRICH AUSTRALIA

Reference:

Fetal Bovine Serum Gamma Irradiated by SER-TAIN (tm) Process Sourced in Australia

Test Name	Specification	Result
рН	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	110110 00100100
	Vesicular Stomatitis Virus - None	None detected
	detected	
Bovine IgG	(mcg/mL) - Record	98 mcg/mL
Cloning Efficiency	Tested	Tested
Electrophoretic Profile	A/G ratio - Record	1.3
	Albumin (g/dL) - Record	2.1 g/dL
	Alpha 1 Globulin (g/dL) - Record	0.7 g/dL
	Alpha 2 Globulin (g/dL) - Record	0.6 g/dL
	Beta Globulin (g/dL) - Record	0.3 g/dL
	Gamma Globulin (g/dL) - Record	0.1 g/dL
Endotoxin	= 10.0 EU/mL</td <td>< 0.5 EU/mL</td>	< 0.5 EU/mL
Growth Promotion/Cytotoxicity	Tested	Tested
Hemoglobin Test	= 25 mg/dL</td <td>19 mg/dL</td>	19 mg/dL
Irradiation Certificate	Present	Present
Irradiation Date	Date of Irradiation	22Jan15
Irradiation Dosage	25.0 - 35.0 kGy	30.3 - 31.7 kGy
Mycoplasma	None detected (Broth Culture)	None detected
	None detected (DNA Fluorochrome Stain)	None detected
Osmolality	260 - 340 mOsm/kg H2O	309 mOsm/kg H2O
Ouchterlony Test	Satisfactory (reaction to species of	Satisfactory (reaction to species of
	origin only)	origin only)
Plating Efficiency	Tested	Tested



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SIGMA ALDRICH AUSTRALIA Reference:

Safety Testing

Sterility

Total Protein

Virus Antibody Test BRSV Virus Antibody Test BVD

Virus Antibody Test IBR Virus Antibody Test PI3

Satisfactory

No microbial growth detected

3.0 - 4.5 g/dL

BRSV - Record titer BVD - Record titer

IBR - Record titer

PI3 - Record titer

Satisfactory

No microbial growth detected

3.8 g/dL

< 1:2

1:4

< 1:2 < 1:2

C of A comments

USDA safety testing results are provided if this material was imported

into the United States.

Intended Use

For Research or Further Manufacturing Uses Only.

NOT INTENDED FOR DIRECT USE IN HUMANS OR ANIMALS.

Origin

The material used in this product was collected in Australia. The serum

was not collected from cattle born, raised, shipped through or slaughtered

in countries where BSE is known to exist.

Storage

-10 to -40 C

Signature

James Bennett

Title

Quality Assurance Associate

Date

30 JAN 15

Ref#:

12007C.06500.03 20150130 103751

