

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Fetal Bovine Serum - USA origin, cell culture tested

Product Number: 12103C
Batch Number: SLBQ3126V
Brand: SIGMA
Storage Temperature: Store at -20 °C
Quality Release Date: 29 DEC 2015
Expiration Date: APR 2019

Test	Specification	Result
pH	6.8 - 8.1	7.4
AVA 9CFR 113.53 Bovine Adenovirus	None Detected	None Detected
AVA 9CFR 113.53 Bovine Parvovirus	None Detected	None Detected
AVA 9CFR 113.53 Blue tongue virus	None Detected	None Detected
AVA 9CFR 113.53 Bovine virus diarrhea	None Detected	None Detected
AVA 9CFR 113.53 Cytopathic effect	None Detected	None Detected
AVA 9CFR 113.53 Hemadsorption	None Detected	None Detected
AVA 9CFR 113.53 Infectious Bovine Rhinotracheitis	None Detected	None Detected
AVA 9CFR 113.53 Parainfluenza 3	None Detected	None Detected
AVA 9CFR 113.53 Rabies	None Detected	None Detected
AVA 9CFR 113.53 Reovirus	None Detected	None Detected
AVA 9CFR 113.53 Bovine respiratory syncytial virus	None Detected	None Detected
AVA 9CFR 113.53 Vesicular Stomatitis Virus	None Detected	None Detected
Bacteriophage Testing (PFU/ml) Record		0

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Test	Specification	Result
Bovine IgG		85 µg/ml
Record		
Cloning Assay	Tested	Tested
A/G Ratio		1.1
Record		
Albumin g/dl		1.8
Record		
Alpha 1 Globulin (g/dl)		0.2
Record		
Alpha 2 Globulin (g/dl)		0.7
Record		
Beta Globulins g/dl		0.4
Record		
Gamma Globulins g/dl		0.4
Record		
Endotoxin Level	≤ 10.0 EU/ml	< 0.5 EU/ml
Osmolality	260 - 330 mOs/kg	308 mOs/kg
Growth Assay	Tested	Tested
Raw Lots		
Hemoglobin	≤ 20 mg/dl	16 mg/dl
Sterility	No Microbial Growth Detected	Pass
Mycoplasma-DNA Staining	None Detected	None Detected
Mycoplasma Test	None Detected	None Detected
Broth culture		
Ouchterlony Test	Satisfactory	Satisfactory
Reaction to species of origin only		
Plating Efficiency	Tested	Tested
Total Protein (g/dL)	3.0 - 4.3	3.5
Virus Antibody Test	Titer Value	< 1:2
Report result BRSV		
Virus Antibody Test	Titer Value	1:4
Report result BVD		
Virus Antibody Test	Titer Value	< 1:2
Report result IBR		

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Test	Specification	Result
Virus Antibody Test Report result PI3	Titer Value	< 1:2
Appearance (Turbidity)	Clear	Clear
Appearance (Color)	Straw to Amber	Dark Amber
Appearance (Form)	Liquid	Liquid



Dominic Williams, QA Associate
Quality Assurance
St. Louis, Missouri US

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