



Certificate of Analysis

ES Cell Qualified Fetal Bovine Serum
Origin: New Zealand
Performance, Mycoplasma, Virus and Endotoxin tested

Catalog Number: MF195

Lot Number: 192427

Storage Temperature: -5 to -20C

Expiration Date: 2019-05

For in vitro diagnostic use.

Sterile filtered (triple 0.1 um)

TEST	SPECIFICATION	RESULT	UNITS
¹ Electrophoretic Pattern	Normal	Normal	
² Endotoxin Testing	>=0 to <=50	<0.30	EU/mL
³ ES Cell Qualification Assay	Acceptable	Acceptable	
⁴ Hemoglobin	>=0 to <=25	13.5	mg%
⁵ Mycoplasma, Supplemental (H-Stain)	Negative	Negative	
⁶ Mycoplasma Testing	Negative	Negative	
⁷ Osmolality	>=280 to <=340	312	mOsm/kg
⁸ Performance Testing: Cloning Assay	Check & Record	100	%
⁹ Performance Testing: Growth Assay	Check & Record	74	%
¹⁰ Performance Testing: Plating Assay	Check & Record	88	%
¹¹ pH	>=6.9 to <=7.4	7.0	
¹² Sterility Testing	Negative	Negative	
¹³ Total Protein	>=3.0 to <=5.0	3.6	g/dL
¹⁴ VT - Bluetongue Virus FA	Negative	Negative	
¹⁵ VT - Bovine Adenovirus FA	Negative	Negative	
¹⁶ VT - Bovine Parvovirus FA	Negative	Negative	
¹⁷ VT- BRSV Fluorescent Antibody	Negative	Negative	
¹⁸ VT - BVDV Fluorescent Antibody	Tested	Tested	
¹⁹ VT - Cytopathogenic Agents	Negative	Negative	



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(Continued)

²⁰ VT - Hemadsorbing Agents	Negative	Negative
²¹ VT - Rabies Virus FA	Negative	Negative
²² VT - Reovirus FA	Negative	Negative

Quality Systems Department

Date: 24-Aug-2016

