

## Certificate of Analysis

Product Fetal Bovine Serum ES Cell Pre-tested ,Collected in South America, sterile-filtered

Cat. No. AB-FBS-ES-0500, AB-FBS-ES-1050

Lot. No.AB20214215Expiry Date04/2026OriginSouth AmericaManufacturing Date04/2021Storage≤-15°C

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
рН	6.8 – 8.2	7.20	
Osmolality <sup>(1)</sup>	280 – 340	299	mOsm/kg
Endotoxin <sup>(2)</sup>	As reported	0.41	EU/mI
Hemoglobin	≤ 25	16.2	mg/dl
Glucose	As reported	2.59	mM
Calcium	As reported	3.29	mM
Phosphorous	As reported	2.70	mM
GOT/AST	As reported	59	U/I
LDH	As reported	753	U/I

Protein Profile			
Total Protein <sup>(3)</sup>	3.0 – 4.5	3.6	g/dl
Albumin <sup>(4)</sup>	As reported	1.8	g/dl
IgG	≤ 250.0	195.32	mg/l

Sterility Testing		
Bacteria and Fungi	Not detected	Not detected
Mycoplasma <sup>(5)</sup>	Not detected	Not detected

Virus Testing <sup>(6)</sup>		
Bovine Herpes Virus (BHV-1 and BHV-5)	Not detected	Not detected
Pestivirus (e.g. BVD-V)	Not detected	Not detected
Parainfluenza Virus Type 3 (PI-3)	Not detected	Not detected

Biological Performance			
Cell Growth MDCK (Madin-Darby Canine Kidney Line)(7)	≥ 75.0	99.0	%
Cell Growth CHO (Chinese Hamster Ovary Cell Line)(7)	≥ 75.0	100.0	%
Mouse Stem Cell Test ES (D3) Inhibition Test on Differentiation	≥ 75.0	92.0	%

## References/Methods

(1) Freeze Point Depression (5) Cell Culture

(2) Chromokinetic Test (6) Cytopathic Effect in Cell Culture and ELISA

(3) Biuret Colorimetry (7) Growth Promoting Assay

(4) Immunoturbidimetry

Intended Use For research use only.

Date June 01, 2021

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