

Certificate of Analysis

Product	Fetal Bovine Serum Collected in South America, sterile-filtered		
Cat. No.	NB-58-0001-9L (9 l), NB-58-0001-18L (18 l), NB-58-0001A (500 ml), NB-58-0001B (100 ml)		
Lot. No.	CP22-5450	Expiry Date	10/2027
Storage	≤-15°C	Manufacturing Date	10/2022
Origin	Mexico		

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8 – 8.2	7.26	
Osmolality ⁽¹⁾	280 – 340	308	mOsm/kg
Endotoxin ⁽²⁾	As reported	0.25	EU/ml
Hemoglobin ⁽³⁾	≤ 25.0	8.45	mg/dl
Glucose ⁽⁴⁾	As reported	5.77	mM
Calcium ⁽³⁾	As reported	2.84	mM
Phosphorous ⁽³⁾	As reported	3.81	mM
GOT/AST ⁽³⁾	As reported	37	U/l
LDH ⁽³⁾	As reported	489	U/l

Protein Profile			
Total Protein ⁽⁵⁾	3.0 – 4.5	3.8	g/dl
Albumin ⁽⁶⁾	As reported	2.65	g/dl
IgG ⁽⁷⁾	≤ 300	330.6*	mg/l

Sterility Testing			
Bacteria and Fungi ⁽⁸⁾	Not detected	Not detected	
Mycoplasma ⁽⁹⁾	Not detected	Not detected	

Virus and Bacteria Testing			
Bovine Herpes Virus (BHV-1 and BHV-5) ⁽¹⁰⁾	Not detected	Not detected	
Pestivirus (e.g. BVD-V) ⁽¹⁰⁾	Not detected	Not detected	
Parainfluenza Virus Type 3 (PI-3) ⁽¹⁰⁾	Not detected	Not detected	

Biological Performance			
Cell Growth MDCK (Canine Kidney Epithelial Cell Line) ⁽¹¹⁾	≥ 75.0	Pass	%
Cell Growth CHO (Chinese Hamster Ovary Cell Line) ⁽¹¹⁾	≥ 75.0	Pass	%

References/Methods

(1) Freeze Point Depression	(7) ELISA
(2) LAL-Test	(8) Membrane Filtration (total plate count, aerobic and anaerobic bacteria, yeasts and fungi)
(3) Photometry	(9) PCR
(4) Hexokinase Assay	(10) Cytopathic Effect in Cell Culture and Immunofluorescence
(5) Biuret Colorimetry	(11) Cell Promoting Assay
(6) Nephelometry	* Out of Specification

Intended Use Fetal Bovine Serum for research use only.

Date November 14, 2022

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