

Certificate of Analysis

Product	FBS Xtra, Fetal Bovine Serum, Collected in South America, sterile-filtered		
Cat. No.	NB-58-0004A (500 ml), NB-58-0004B (100 ml)		
Lot. No.	CP23-6000	Expiry Date	01/2026
Origin	Mexico	Manufacturing Date	01/2023
Storage	≤15°C		

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8- 8.	7.06	
Osmolality ⁽¹⁾	280- 340	323	mOsm/kg
Endotoxin ⁽²⁾	As reported	<0.25	EU/m
Hemoglobin ⁽³⁾	≤ 25	6.2	mg/d
Glucose ⁽⁴⁾	As reported	2.39	mM
Calcium ⁽³⁾	As reported	181	mM
Phosphorous ⁽³⁾	As reported	6.43	mM
GOT/AST ⁽³⁾	As reported	6	U/
LDH ⁽³⁾	As reported	310	U/

Protein Profile			
Total Protein ⁽⁵⁾	≤ 4.5	23	g/d
Albumin ⁽⁶⁾	As reported	156	g/d
IgG ⁽⁷⁾	≤ 300.0	82.	mg/

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

Virus Testing ⁽¹⁰⁾			
Bovine Herpes Virus (BHV 1 and BHV 5)	Not detected	Not detected	
Pestivirus (e.g. BVDV)	Not detected	Not detected	
Parainfluenza Virus Type 3 (P 3)	Not detected	Not detected	

Biological Performance			
Cell Growth MDCK (Canine Kidney Epithelial Cell Line ⁽¹¹⁾)	≥ 75	Pass	%
Cell Growth CHO (Chinese Hamster Ovary Cell Line ⁽¹¹⁾)	≥ 75	Pass	%

References / Method

(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

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Date January 3 , 202

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