

FBS Xtra, Fetal Bovine Serum, Collected in South America, sterile-filtered

#Cat : NB-58-0004A Size :500ml

#Cat : NB-58-0004B Size :100ml

#Cat : NB-58-0165A Size :10x50ml

Certificate of Analysis

Lot. No	CP25-8126	Expiry Date	03/2030
Storage	≤ -15°C	Manufacturing Date	03/2025

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8 – 8.2	7.2	
Osmolality ⁽¹⁾	280 – 340	328	mOsm/kg
Endotoxin ⁽²⁾	As reported	< 0.251	EU/ml
Hemoglobin ⁽³⁾	≤ 25.0	5.5	mg/dl
Glucose ⁽⁴⁾	As reported	1.39	mM
Calcium ⁽³⁾	As reported	1.81	mM
Phosphorous ⁽³⁾	As reported	6.2	mM
GOT/AST ⁽³⁾	As reported	62	U/l
LDH ⁽³⁾	As reported	227	U/l

Protein Profile			
Total Protein ⁽⁵⁾	≤ 4.5	2.4	g/dl
Albumin ⁽⁶⁾	As reported	1.62	g/dl
IgG ⁽⁷⁾	≤ 300.0	146.65	mg/l

Sterility Testing			
Sterility ⁽⁸⁾	Sterile	Pass	
Mycoplasma ⁽⁹⁾	Not detected	Not detected	

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

Biological Performance ⁽¹¹⁾			
Cell Growth HEK293 (Human Embryonic Kidney Cell Line)	≥ 75.0	Pass	%
Cell Growth CHO (Chinese Hamster Ovary Cell Line)	≥ 75.0	Pass	%

References/Methods

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| (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 | | |

Intended Use For research and further manufacturing use only.

Date April 28,2025

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