

## Certificate of Analysis (Preliminary)

Product	FBS Xtra, Fetal Bovine Serum, Collected in South America, sterile-filtered		
Cat. No.	AB-FBS-0500 , AB-FBS-1050		
Lot. No.	AB20214217	Expiry Date	06/2024
Origin	South America	Manufacturing Date	06/2021
Storage	≤-15°C		

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8 – 8.2	7.28	
Osmolality <sup>(1)</sup>	280 – 340	321	mOsm/kg
Endotoxin <sup>(2)</sup>	As reported	< 0.36	EU/ml
Hemoglobin <sup>(3)</sup>	≤ 25	9.3	mg/dl
Glucose <sup>(4)</sup>	As reported	1.11	mM
Calcium <sup>(3)</sup>	As reported	1.65	mM
Phosphorous <sup>(3)</sup>	As reported	5.94	mM
GOT/AST <sup>(3)</sup>	As reported	29	U/l
LDH <sup>(3)</sup>	As reported	326	U/l

Protein Profile			
Total Protein <sup>(5)</sup>	3.0 – 4.5	2.2	g/dl
Albumin <sup>(6)</sup>	As reported	1.3	g/dl

Sterility Testing			
Bacteria and Fungi <sup>(8)</sup>	Not detected	Not detected	
Mycoplasma <sup>(9)</sup>	Not detected	Not detected	

Virus Testing <sup>(10)</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 (Canine Kidney Epithelial Cell Line) <sup>(11)</sup>	≥ 75	In testing	%
Cell Growth CHO (Chinese Hamster Ovary Cell Line) <sup>(11)</sup>	≥ 75	In testing	%

### 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	

Intended Use For research use only.

Date June 25, 2021

**This document has been created digitally and is valid without a signature.**