

# Certificate of Analysis

Product	Fetal Bovine Serum , sterile-filtered		
Cat. No.	AB-FBS-0500S , AB-FBS-1050S		
Lot. No.	AB20225285	Storage	≤ -15°C
Manufacturing Date	2022.06	Expiry Date	2027.06

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8 – 8.2	7.48	
Osmolality <sup>(1)</sup>	280 – 340	319	mOsm/kg
Endotoxin <sup>(2)</sup>	As reported	16.53	EU/ml
Hemoglobin <sup>(3)</sup>	≤ 25.0	12.50	mg/dl
Glucose <sup>(4)</sup>	As reported	2.48	mM
Calcium <sup>(3)</sup>	As reported	3.43	mM
Phosphorous <sup>(3)</sup>	As reported	2.89	mM
GOT/AST <sup>(3)</sup>	As reported	43	U/l
LDH <sup>(3)</sup>	As reported	1708	U/l

Protein Profile			
Total Protein <sup>(5)</sup>	3.0 – 4.5	3.8	g/dl
Albumin <sup>(6)</sup>	As reported	2.2	g/dl
Globulin	0.4 – 2.4	1.6	g/dl

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

Virus and Bacteria Testing			
Bovine Herpes Virus (BHV-1 and BHV-5) <sup>(10)</sup>	Not detected		
Pestivirus (e.g. BVD-V) <sup>(10)</sup>	Not detected		
Parainfluenza Virus Type 3 (PI -3) <sup>(10)</sup>	Not detected		
Bovine Leukemia Virus (BLV) <sup>(9)</sup>	Not detected		
Hemadsorbing Agents <sup>(10)</sup>	Not detected		
Mycobacterium tuberculosis <sup>(9)</sup>	Not detected		

Biological Performance			
Cell Growth MDCK (Canine Kidney Epithelial Cell Line) <sup>(11)</sup>	≥ 75.0		%
Cell Growth CHO (Chinese Hamster Ovary Cell Line) <sup>(11)</sup>	≥ 75.0		%

## References/Methods

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