

## Certificate of Analysis (Preliminary)

Product	Fetal Bovine Serum Delipidated, sterile-filtered		
Cat. No.	AB-DL-0500		
Lot. No.	AB20190515	Storage	≤ -15°C
Manufacturing Date	2019.5	Expiry Date	2024.5

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8 – 8.2	7.96	
Osmolality <sup>(1)</sup>	280 – 340	296	mOsm/kg
Endotoxin <sup>(2)</sup>	As reported	0.223	EU/ml
Hemoglobin <sup>(3)</sup>	≤ 25	16.1	mg/100ml
Glucose <sup>(4)</sup>	As reported	24	mg/100ml
Calcium <sup>(3)</sup>	As reported	3.88	mM
Globulin	As reported	7.17	mM
Cholesterol	As reported	2.1	mg/100ml
Triglycerides	As reported	41.2	mg/100ml

Protein Profile			
Total Protein <sup>(5)</sup>	3.0 – 4.5	3.63	g/dl
Albumin <sup>(6)</sup>	As reported	2.38	g/dl
IgG <sup>(7)</sup>	As reported	204	μg/ml

Sterility Testing			
Bacteria and Fungi <sup>(9)</sup>	Not detected	Not detected	
Mycoplasma <sup>(8)</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 L929 (Murine Fibroblast Cell Line) <sup>(11)</sup>	≥ 75	100.0	%
Cell Growth SP2/0-Ag14 (Mouse myeloma Cell Line) <sup>(11)</sup>	≥ 75	99.0	%

### References/Methods

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

**Intended Use For research use only.**

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