

# Certificate of Analysis



Product Fetal Bovine Serum, Collected in South America, sterile-filtered  
Cat .No. AB-FBS-0500S(500 ml),AB-FBS-0100S(100ml)  
Lot No. AB20180244D

Expiry Date 02/2023  
Storage  $\leq -15^{\circ}\text{C}$

Quality Profile	Specification	Result	Unit
Appearance	Clear amber	Pass	
pH	6.8- 8.2	7.4	
Osmolality <sup>(1)</sup>	280- 340	329	mOsm/kg
Endotoxin <sup>(2)</sup>	As reported	6.4	EU/ml
Hemoglobin	$\leq 25$	10.8	mg/dl
Glucose	As reported	3.80	mM
Calcium	As reported	3.12	mM
Phosphorous	As reported	2.90	mM
GOT/AST	As reported	40	U/l
LDH	As reported	534	U/l

## Protein Profile

Total Protein <sup>(3)</sup>	3.0- 4.5	3.7	g/dl
Albumin <sup>(4)</sup>	As reported	2.4	g/dl
IgG	$\leq 250$	138.34	mg/ml

## Sterility Testing

Bacteria and Fungi	Not detected	Not detected
Mycoplasma <sup>(5)</sup>	Not detected	Not detected

## Virus Testing<sup>(6)</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>(7)</sup>	$\geq 75\%$	96 %
Cell Growth L929 (Murine Fibroblasts) <sup>(7)</sup>	$\geq 75\%$	100 %

## References/Methods

- |                             |   |
|-----------------------------|---|
| (1) Freeze Point Depression | (5) Cell Culture                                |
| (2) Chromokinetic Test      | (6) Cytopathic Effect in cell Culture and ELISA |
| (3) Biuret Colorimetry      | (7) Growth Promoting Assay                      |
| (4) Immunoturbidimetry      |   |

**Intended Use:** For research use only.

Date: February 17,2018

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