

## Certificate of Analysis Preliminary

Product Fetal Bovine Serum Advanced Collected in South America, sterile-filtered Cat. No. AB-FBS-0500S(500 ml), AB-FBS-1050S (500 ml), AB-FBS-0050S (500 ml)

Lot. No. AB20225015 Expiry Date 01/2027
Origin South America Manufacturing Date 01/2022

Storage ≤-15°C

| Quality Profile            | Specification | Result     | Unit    |
|----------------------------|---------------|------------|---------|
| Appearance                 | Clear amber   | Pass       |         |
| рН                         | 6.8 – 8.2     | 7.07       |         |
| Osmolality <sup>(1)</sup>  | 280 – 340     | 317        | mOsm/kg |
| Endotoxin <sup>(2)</sup>   | As reported   | 1.73       | EU/mI   |
| Hemoglobin <sup>(3)</sup>  | ≤ 25          | In testing | mg/dl   |
| Glucose <sup>(4)</sup>     | As reported   | 5.11       | mM      |
| Calcium <sup>(3)</sup>     | As reported   | 2.98       | mM      |
| Phosphorous <sup>(3)</sup> | As reported   | 3.0        | mM      |
| GOT/AST <sup>(3)</sup>     | As reported   | 41         | U/I     |
| LDH <sup>(3)</sup>         | As reported   | 455        | U/I     |

| Protein Profile              |             |            |      |
|------------------------------|-------------|------------|------|
| Total Protein <sup>(5)</sup> | 3.0 – 4.5   | 3.8        | g/dl |
| Albumin <sup>(6)</sup>       | As reported | 2.67       | g/dl |
| IgG <sup>(7)</sup>           | ≤ 250       | In testing | mg/l |

| Sterility Testing         |              |              |
|---------------------------|--------------|--------------|
| Bacteria and Fungi®       | 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)(11) | ≥ 75 | 97.0 | % |
| Cell Growth CHO (Chinese Hamster Ovary Cell Line)(11)     | ≥ 75 | 99.0 | % |

## References/Methods

) Freeze Point Depression (7) ELIS

(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(6) Nephelometry(11) Cell Promoting Assay

Intended Use For research use only.

Date February 22, 2022

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