

Certificate of Analysis

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|----------|--|--------------------|---------|
| Product | Fetal Bovine Serum, Collected in South America, sterile-filtered | | |
| Cat. No. | AB-FBS0500S, AB-FBS-0050S, AB-FBS-1050S | | |
| Lot. No. | AB20214403 | Expiry Date | 09/2026 |
| Origin | South America | Manufacturing Date | 09/2021 |
| Storage | ≤-15°C | | |

| Quality Profile | Specification | Result | Unit |
|----------------------------|---------------|--------|---------|
| Appearance | Clear amber | Pass | |
| pH | 6.8 – 8.2 | 7.35 | |
| Osmolality ⁽¹⁾ | 280 – 340 | 312 | mOsm/kg |
| Endotoxin ⁽²⁾ | As reported | 1.93 | EU/ml |
| Hemoglobin ⁽³⁾ | ≤ 25 | 10.70 | mg/dl |
| Glucose ⁽⁴⁾ | As reported | 3.66 | mM |
| Calcium ⁽³⁾ | As reported | 2.94 | mM |
| Phosphorous ⁽³⁾ | As reported | 2.62 | mM |
| GOT/AST ⁽³⁾ | As reported | 30 | U/l |
| LDH ⁽³⁾ | As reported | 501 | U/l |

| Protein Profile | | | |
|------------------------------|-------------|-------|------|
| Total Protein ⁽⁵⁾ | 3.0 – 4.5 | 3.6 | g/dl |
| Albumin ⁽⁶⁾ | As reported | 2.1 | g/dl |
| IgG ⁽⁷⁾ | ≤ 250 | 83.31 | mg/l |

| Sterility Testing | | | |
|-----------------------------------|--------------|--------------|--|
| Bacteria and Fungi ⁽⁸⁾ | Not detected | Not detected | |
| Mycoplasma ⁽⁹⁾ | Not detected | Not detected | |

| Virus Testing ⁽¹⁰⁾ | | | |
|---------------------------------------|--------------|--------------|--|
| 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 | 100.0 | % |
| Cell Growth CHO (Chinese Hamster Ovary Cell Line) ⁽¹¹⁾ | ≥ 75 | 99.0 | % |

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 | |

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Date November 11, 2021

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