

# Certificate of Analysis



|          |   |             |         |
|----------|---|-------------|---------|
| Product  | Fetal Bovine Serum Charcoal Stripped, Collected in South America, sterilefiltered |             |         |
| Cat .No. | AB-FBS-CS0500(500 ml),AB-FBS-CS0100(100ml)  | Expiry Date | 02/2023 |
| Lot No.  | AB20182121  | Storage     | ≤-15°C  |

| Quality Profile             | Specification | Result | Unit    |
|-----------------------------|---------------|--------|---------|
| pH                          | 6.8- 8.2      | 7.76   |         |
| Osmolality <sup>(1)</sup>   | 280- 340      | 302    | mOsm/kg |
| Endotoxin <sup>(2)</sup>    | <30           | 0.333  | EU/ml   |
| Hemoglobin <sup>(3)</sup>   | ≤20           | 18.67  | mg/dl   |
| Estradiol <sup>(4)</sup>    | As reported   | < 5.0  | pmol/l  |
| Progesterone <sup>(4)</sup> | As reported   | < 0.1  | nmol/l  |
| Testosterone <sup>(4)</sup> | As reported   | < 0.05 | nmol/l  |

## Protein Profile

|                              |             |      |      |
|------------------------------|-------------|------|------|
| Total Protein <sup>(5)</sup> | 3.0- 4.5    | 3.62 | g/dl |
| Albumin <sup>(6)</sup>       | As reported | 1.64 | g/dl |
| IgG <sup>(7)</sup>           | <250        | 166  | mg/l |

## Sterility Testing

|                                   |              |              |
|-----------------------------------|--------------|--------------|
| Aerobic Bacteria <sup>(8)</sup>   | Not detected | Not detected |
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| Fungi <sup>(8)</sup>              | Not detected | Not detected |
| Mycoplasma <sup>(9)</sup>         | Not detected | Not detected |

## Virus Testing<sup>(6)</sup>

|  |        |              |
|--|--------|--------------|
| Bovine Virus Diarrhoea Virus (BVD-V) <sup>(10)</sup> | Tested | Not detected |
| Cytopathogenic Agents (e.g. BHV-1) <sup>(11)</sup>   | Tested | Not detected |
| Hemadsorbing Agents (e.g. PI-3) <sup>(11)</sup>      | Tested | Not detected |

## Biological Performance<sup>(7)</sup>

|  |        |       |
|--|--------|-------|
| Cell Growth MRC-5 (Human Lung Fibroblasts) | ≥ 75 % | 96 %  |
| Cell Growth L929 (Murine Fibroblasts)      | ≥ 75 % | 108 % |

## References/Methods

|                             |   |
|-----------------------------|---|
| (1) Freeze Point Depression | (7) ELISA   |
| (2) Kinetic-Turbidimetric   | (8) Membrane Filtration, Current EP                           |
| (3) Spectrophotometry       | (9) Current Edition EP  |
| (4) Radioimmunity           | (10) Cytopathic Effect in Cell Culture and Immunofluorescence |
| (5) Biuret                  | (11) Cytopathic Effect in Cell Culture                        |
| (6) Electrophoresis         |   |

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

Date: February 18,2018

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