A Division of CA3 Biosciences, Inc.

CERTIFICATE OF ANALYSIS

$Fetal\ Bovine\ Serum\ Premium-0.1\mu m\ Triple\ Filtered\ Sterile,\ USDA\ Origin$

Batch No. 239P19 Expiry Date August 2024 Catalog No. FBS002 Storage -10°C to -20°C

Country of Raw Material Origin Panama Appearance Clear straw to amber liquid

Country of Final Processing United States Filtration Triple 0.1 µm filtered

Date of Manufacture August 2019 Batch size 984 Liters

CHEMICAL PARAMETERES

| Test | Methods | Units | Specifications | Results |
|--|--------------------|---------|----------------|---------|
| Albumin | Chemistry Analyzer | g/L | As Reported | 17.6 |
| Alpha Globulin | Chemistry Analyzer | g/L | As Reported | 16.7 |
| Beta Globulin | Chemistry Analyzer | g/L | As Reported | 1.8 |
| Gamma Globulin | Chemistry Analyzer | g/L | As Reported | 0.2 |
| Total Protein | Chemistry Analyzer | g/dL | As Reported | 3.62 |
| Alkaline Phosphatase | Chemistry Analyzer | U/L | As Reported | 368 |
| Glutamic Pyruvic Transaminase (SGPT) (ALT) | Chemistry Analyzer | U/L | As Reported | 8 |
| Gamma-Glutamyl Transpeptidase (GGT) | Chemistry Analyzer | U/L | As Reported | 7 |
| AST (SGOT) | Chemistry Analyzer | U/L | As Reported | 23 |
| Bilirubin | Chemistry Analyzer | mg/dL | As Reported | 0.12 |
| Calcium | Chemistry Analyzer | mg/dL | As Reported | 14.2 |
| Chloride | Chemistry Analyzer | mEq/L | As Reported | 104 |
| Cholesterol | Chemistry Analyzer | mg/dL | As Reported | 34 |
| Creatinine | Chemistry Analyzer | mg/dL | As Reported | 2.9 |
| Glucose | Chemistry Analyzer | mg/dL | As Reported | 53 |
| Hemoglobin | USP <90> | mg/dL | ≤ 20 | 11.50 |
| IgG | ELISA | μg/mL | As Reported | 121.2 |
| Iron | Chemistry Analyzer | μg/dL | As Reported | 148 |
| LDH | Chemistry Analyzer | U/L | As Reported | 568 |
| Osmolality | Osmometer | mOsm/kg | 260-340 | 295 |
| pH | pH Meter | | 6.50-8.50 | 7.05 |
| Phosphorus | Chemistry Analyzer | mg/dL | As Reported | 8.7 |
| Potassium | Chemistry Analyzer | mEq/L | As Reported | 11.0 |
| Sodium | Chemistry Analyzer | mEq/L | As Reported | 139 |
| Triglyceride | Chemistry Analyzer | mg/dL | As Reported | 58 |
| Urea | Chemistry Analyzer | mg/dL | As Reported | 39 |
| Uric Acid | Chemistry Analyzer | mg/dL | As Reported | 1.6 |

VIRAL TESTING

| Test | Methods | Specifications | Results |
|--------------------|-------------|----------------|--------------|
| Blue Tongue | 9CFR 113.53 | Not Detected | Not Detected |
| Bovine Adeno 1 | 9CFR 113.53 | Not Detected | Not Detected |
| Bovine Adeno 5 | 9CFR 113.53 | Not Detected | Not Detected |
| BPV | 9CFR 113.53 | Not Detected | Not Detected |
| BRSV | 9CFR 113.53 | Not Detected | Not Detected |
| BVD Cytopathic | 9CFR 113.53 | Not Detected | Not Detected |
| BVD Non-Cytopathic | 9CFR 113.53 | Not Detected | Not Detected |
| Cytopathic (IBR) | 9CFR 113.53 | Not Detected | Not Detected |
| Hemadsorbing (PI3) | 9CFR 113.53 | Not Detected | Not Detected |
| Rabies | 9CFR 113.53 | Not Detected | Not Detected |
| REO Virus | 9CFR 113.53 | Not Detected | Not Detected |

CERTIFICATE OF ANALYSIS

Fetal Bovine Serum Premium – 0.1µm Triple Filtered Sterile, USDA Origin

239P19 **Expiry Date** Batch No. August 2024 Catalog No. FBS002 Storage -10°C to -20°C

Country of Raw Material Origin Clear straw to amber liquid Panama Appearance

Country of Final Processing **United States** Filtration Triple 0.1µm filtered

Date of Manufacture 984 Liters August 2019 Batch size

MICROBIOLOGICAL PARAMETERS

| Test | Methods | Units | Specifications | Results |
|------------|-------------|-------|----------------|--------------|
| Endotoxin | LAL | EU/mL | ≤10 | ≤10 |
| Mycoplasma | 9CFR 113.28 | | Not Detected | Not Detected |
| Sterility | 9CFR 113.26 | | No Growth | No Growth |

ANTIBIOTIC

| Test | Units | Specifications | Results |
|--------------|-------|----------------|--------------|
| Tetracycline | | Not Detected | Not Detected |

BIOLOGICAL PERFORMACE

| Test | Specifications | Results |
|--|----------------|---------|
| Cell Line: L929- 3rd day: | As Reported | 107% |
| Cell Line: L929- 6th day: | As Reported | 90% |
| Cell Line: SP2- 3rd day: | As Reported | 95% |
| Cell Line: SP2- 6th day: | As Reported | 96% |
| Cell Line: HELA - 3rd day: | As Reported | 88% |
| Cell Line: HELA - 6th day: | As Reported | 113% |
| Cell Line: MRC5- 3rd day: | As Reported | 81% |
| Cell Line: MRC5- 6th day: | As Reported | 105% |
| PLATING EFFICIENCY - Cells implanted: | 500 | 500 |
| PLATING EFFICIENCY- Number of colonies: | As Reported | 319 |
| PLATING EFFICIENCY- %PE absolute: | As Reported | 64% |
| PLATING EFFICIENCY- %PE relative: | As Reported | 93% |
| CLONING EFFICIENCY - Cells implanted per well: | 1 | 1 |
| CLONING EFFICIENCY - Number of clones: | As Reported | 37 |
| CLONING EFFICIENCY - %CE absolute: | As Reported | 38% |
| CLONING EFFICIENCY - %CE relative: | As Reported | 94% |