



## Certificate of Analysis

### Fetal Bovine Serum

Dialyzed, Sterile

**Catalog no.:** 080950, 080910, 080905

**Lot no.:** 109668

**Mfg. Date:** 10/2022

**Exp. Date:** 03/2027

**MSDS:** Available upon request

**Shipping:** Frozen at -10 to -18°C

**Storage:** Store frozen at -10 to -18°C

#### CHEMICAL ANALYSIS

| TEST            | SPECIFICATION | UNITS   | RESULTS |
|-----------------|---------------|---------|---------|
| Total Protein   | 2.9 - 4.5     | g/dL    | 3.17    |
| Albumin         | ≤ 4.5         | g/dL    | 1.85    |
| Total Bilirubin | As reported   | mg/dL   | 0.21    |
| Globulin        | As reported   | g/dL    | 1.32    |
| ALP             | As reported   | U/L     | 129.0   |
| ALT             | As reported   | U/L     | 6.00    |
| AST             | As reported   | U/L     | 21.00   |
| LDH             | As reported   | U/L     | 229.0   |
| Cholesterol     | As reported   | mg/dL   | 23.98   |
| Glucose         | ≤ 5.00        | mg/dL   | 0.0     |
| Creatinine      | As reported   | mg/dL   | 0.026   |
| Magnesium       | As reported   | mmol/L  | 0.1     |
| Sodium          | As reported   | mmol/L  | 142.8   |
| Potassium       | As reported   | mmol/L  | 1.00    |
| Chloride        | As reported   | mmol/L  | 134.3   |
| Calcium         | As reported   | mg/dL   | <2.0    |
| Phosphorus      | As reported   | mg/dL   | <0.62   |
| Osmolality      | 260 - 340     | mOsm/kg | 372     |
| pH              | 6.7 - 8.0     | NA      | 7.22    |

#### MICROBIOLOGICAL ANALYSIS

| TEST               | SPECIFICATION | UNITS | RESULTS  |
|--------------------|---------------|-------|----------|
| Endotoxin          | <10.0         | EU/mL | Conform  |
| Hemoglobin         | ≤ 25.0        | mg/dL | 21.39    |
| Mycoplasma Species | Negative      | NA    | Negative |
| Appearance         | Clear amber   | NA    | Conform  |
| Sterility          | Pass          | NA    | Sterile  |



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### ANTIBODY VIRUS NEUTRALIZATION

| TEST                                      | SPECIFICATION | RESULTS  |
|---|---------------|----------|
| Para Influenza 3 (PI-3)                   | Negative      | Negative |
| Bovine viral diarrhea (BVD)               | Negative      | Tested   |
| Adenovirus                                | Negative      | Negative |
| Herpes (BHV4)                             | Negative      | Negative |
| Infectious Bovine Rhinotracheitis (IBR)   | Negative      | Negative |
| Bovine Respiratory Syncytial Virus (BRSV) | Negative      | Negative |

### HORMONES ANALYSIS

| TEST      | SPECIFICATION   | UNITS  | RESULTS    |
|-----------|---|--------|------------|
| Insulin   | Check & Record<br>Estrus: 10-40                             | pmol/L | 39.45      |
| Estradiol | Pregnancy 6 months or less: < 20<br>Pregnancy 9 month: > 50 | pg/ml  | Not tested |

### SERUM PROTEIN ELECTROPHORESIS

| TEST             | SPECIFICATION  | UNITS | RESULTS |
|------------------|----------------|-------|---------|
| <i>Albumin</i>   | 1.5 – 2.8      | g/dL  | 1.63    |
| Alpha 1 Globulin | Check & Record | g/dL  | 1.26    |
| Beta Globulin    | Check & Record | g/dL  | 0.23    |
| Gamma Globulin   | Check & Record | g/dL  | 0.04    |
| A/G ratio        | Check & Record | ----  | 1.10    |

**ADDITIONAL INFORMATION:** Serum is dialyzed against 0.15M NaCl (using 10 000MW cut-off filters) until the level of glucose is below 5 mg/dL. This procedure reduces the level of low molecular weight components.

THIS PRODUCT IS INTENDED FOR RESEARCH USE ONLY. IT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.