

CERTIFICATE OF ANALYSIS
FBS - Premium Fetal Bovine Serum
#Cat: NB-26-01732

Batch/Lot No: N23G22

Catalog No: NB-26-01732

Country of Raw Material Origin: Guatemala

Country of Final Manufacturing: Guatemala

Date of Manufacture: October 2023

Expiration Date: October 2028

Storage: ≤ -10°C

Appearance: Clear straw to amber liquid

Filtration: Triple 0.1 µm membrane filtered

Chemical Parameters

| Test | Methodology | Unit of Measure | Specification | Results |
|----------------------|--------------------|-----------------|---------------|---------|
| Alkaline Phosphatase | Chemistry Analyzer | IU/L | As Reported | 370 |
| ALT (SGPT) | Chemistry Analyzer | IU/L | As Reported | 12 |
| AST (SGOT) | Chemistry Analyzer | IU/L | As Reported | 51 |
| Bilirubin | Chemistry Analyzer | mg/dL | As Reported | 0.1 |
| Calcium | Chemistry Analyzer | mg/dL | As Reported | 14.7 |
| Cholesterol | Chemistry Analyzer | mg/dL | As Reported | 40.0 |
| Chloride | Chemistry Analyzer | mEq/L | As Reported | 99.0 |
| Creatinine | Chemistry Analyzer | mg/dL | As Reported | 2.8 |
| GGT | Chemistry Analyzer | IU/L | As Reported | 5.0 |
| Glucose | Chemistry Analyzer | mg/dL | As Reported | 89.0 |
| Hemoglobin | USP <90> | mg/dL | As Reported | 11.90 |
| IgG | ELISA | mg/L | As Reported | 173.6 |
| Iron | Chemistry Analyzer | µg/dL | As Reported | 171.0 |
| LDH | Chemistry Analyzer | IU/L | As Reported | 695.0 |
| Magnesium | Chemistry Analyzer | mEq/L | As Reported | 2.8 |
| Osmolality | Osmometer | mOsm/kg H2O | As Reported | 316.0 |
| pH | pH Meter | | As Reported | 7.3 |
| Phosphorus | Chemistry Analyzer | mg/dL | As Reported | 9.2 |
| Potassium | Chemistry Analyzer | mEq/L | As Reported | 11.4 |
| Sodium | Chemistry Analyzer | mEq/L | As Reported | 136.0 |
| Total Protein | Chemistry Analyzer | g/dL | As Reported | 4.0 |
| Triglyceride | Chemistry Analyzer | mg/dL | As Reported | 70.0 |
| Urea Nitrogen (BUN) | Chemistry Analyzer | mg/dL | As Reported | 19.0 |
| Uric Acid | Chemistry Analyzer | mg/dL | As Reported | 1.9 |

Microbiological Parameters

| Test | Methodology | Unit of Measure | Specification | Results |
|------------|----------------------------|-----------------|---------------|--------------|
| Endotoxin | LAL | EU/mL | As Reported | 0.570 |
| Mycoplasma | Culture on Sensitive Media | | Not Detected | Not Detected |
| Sterility | | | | |
| Bacteria | 9CFR 113.26 | | No Growth | No Growth |
| Fungi | 9CFR 113.26 | | No Growth | No Growth |

Antibiotics/Antimycotics

| Test | Methodology | Specification | Results |
|--------------|-------------|---------------|---------|
| Tetracycline | ng/mL | As Reported | 3.00 |

Viral Testing

| Test | Methodology | Specification | Results |
|---------------------|-----------------------------|---------------|--------------|
| Blue Tongue | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| Bovine Adeno 3 | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| Bovine Adeno 5 | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| BPV | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| BRSV | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| BVD, Cytopathic | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| BVD, Non-Cytopathic | 9CFR 113.53, 113.46, 113.47 | As Reported | Detected |
| Cytopathic (IBR) | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| Hemadsorbing (PI3) | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| Rabies | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |
| REO Virus | 9CFR 113.53, 113.46, 113.47 | Not Detected | Not Detected |

Protein Electrophoresis

| Test | Unit of Measure | Specification | Results |
|-----------------|-----------------|---------------|---------|
| Albumin | g/dL | As Reported | 1.8 |
| Alpha Globulins | g/dL | As Reported | 1.9 |
| Beta Globulins | g/dL | As Reported | 0.2 |
| Gamma Globulins | g/dL | As Reported | 0.0 |

Hormone Panel

| Test | Unit of Measure | Specification | Results |
|--------------|-----------------|-----------------|---------|
| Cortisol | ug/dL | For information | 0.202 |
| Insulin | uIU/mL | For information | 7.590 |
| Progesterone | ng/mL | For information | < 0.06 |
| T3 | ng/dL | For information | 82.7 |
| T4 | ug/dL | For information | 13.3 |
| Testosterone | ng/mL | For information | 0.01 |

Biological Performance

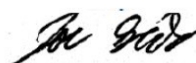
| Test | Unit of Measure | Specification | Results |
|------------------------------------|-----------------|-----------------|---------|
| Cell Line: SP2/0-Ag14 Day 3 | % | For information | 102.6 |
| Cell Line: MRC5 Day 5 | % | For information | 95.9 |
| Cell Line: CHO K1 day 3 | % | For information | 118.7 |
| Relative Colony Forming Efficiency | % | For information | 94.1 |
| Absolute Colony Forming Efficiency | % | For information | 69.2 |
| Relative Cloning Efficiency | % | For information | 111.3 |
| Absolute Cloning Efficiency | % | For information | 46.4 |

Test Results Reviews and Approved By



January 5, 2024

Approved by/Date



January 8, 2024

Verify by/Date

* Test results for this product may have been obtained from third-party certified testing facilities. Results are believed to be accurate but have not been verified by Neo Biotech. Neo Biotech relies on the integrity of third-party testing facilities and conducts periodic audits of those facilities. Such audits provided Neo Biotech with sufficient confidence in the facilities' level of compliance