



## Certificate of Analysis

**Fetal Bovine Serum, Certified**  
**Origin: North American**  
**Performance, Mycoplasma, Virus,**  
**Bacteriophage and Endotoxin tested**

**Catalog Number:** MF191  
**Lot Number:** 952712

**Storage Temperature:** -5 to -20C

**Expiration Date:** 2019-01

For in vitro diagnostic use.

Sterile filtered (triple 0.1 um)

| TEST                                               | SPECIFICATION  | RESULT   | UNITS  |
|----------------------------------------------------|----------------|----------|--------|
| <sup>1</sup> Alkaline Phosphatase                  | Check & Record | 212      | u/L    |
| <sup>2</sup> Bacteriophage Testing                 | Check & Record | Negative |        |
| <sup>3</sup> Bicarbonate                           | Check & Record | 14.0     | MMOL/L |
| <sup>4</sup> Bilirubin (Total)                     | Check & Record | 0.20     | mg/dL  |
| <sup>5</sup> Blood Urea Nitrogen (BUN)             | Check & Record | 16       | mg/dL  |
| BUN/Creatinine Ratio                               | Check & Record | 6.7      |        |
| <sup>6</sup> Calcium                               | Check & Record | 13.90    | mg/dL  |
| <sup>7</sup> Chloride                              | Check & Record | 95       | MMOL/L |
| <sup>8</sup> Cholesterol                           | Check & Record | 38       | mg/dL  |
| <sup>9</sup> Creatinine                            | Check & Record | 2.40     | mg/dL  |
| <sup>10</sup> Determination of % Oxy Hemoglobin    | >=70 to        | 96.9     | %      |
| <sup>11</sup> Electrophoretic Pattern              | Normal         | Normal   |        |
| <sup>12</sup> Endotoxin Testing                    | >=0 to <=5     | <0.30    | EU/mL  |
| <sup>13</sup> Gamma Glutamyl Transpeptidase (GGPT) | Check & Record | 4        | u/L    |
| <sup>14</sup> Glucose                              | Check & Record | 107      | mg/dL  |
| <sup>15</sup> Hemoglobin                           | >=0 to <=15    | 8.7      | mg%    |
| <sup>16</sup> High Density Lipoproteins (HDL)      | Check & Record | 11       | mg/dL  |
| <sup>17</sup> Hormone Profile: Estradiol           | Check & Record | 26.39    | pg/mL  |



# Certificate of Analysis

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|                                                      |                |               |         |
|------------------------------------------------------|----------------|---------------|---------|
| <sup>18</sup> Hormone Profile: Insulin               | Check & Record | 8.90          | uIU/mL  |
| <sup>19</sup> Hormone Profile: Progesterone          | Check & Record | 0.05          | ng/mL   |
| <sup>20</sup> Hormone Profile: Testosterone          | Check & Record | 0.14          | ng/mL   |
| <sup>21</sup> Hormone Profile: Thyroxine (T4)        | Check & Record | 11.52         | ug/dL   |
| <sup>22</sup> Lactic Dehydrogenase (LDH)             | Check & Record | 419           | u/L     |
| <sup>23</sup> Low Density Lipoproteins (LDL)         | Check & Record | 13.0          | mg/dL   |
| <sup>24</sup> Mycoplasma, Supplemental (H-Stain)     | Negative       | Negative      |         |
| <sup>25</sup> Mycoplasma Testing                     | Negative       | Negative      |         |
| <sup>26</sup> Osmolality                             | >=280 to <=340 | 305           | mOsm/kg |
| <sup>27</sup> Performance Testing: Cloning Assay     | Check & Record | 90            | %       |
| <sup>28</sup> Performance Testing: Growth Assay      | Check & Record | 106           | %       |
| <sup>29</sup> Performance Testing: Plating Assay     | Check & Record | 108           | %       |
| <sup>30</sup> pH                                     | >=6.9 to <=7.8 | 7.0           |         |
| <sup>31</sup> Phosphorous (Inorganic)                | Check & Record | 10.20         | mg/dL   |
| <sup>32</sup> Potassium                              | Check & Record | 11.70         | MMOL/L  |
| <sup>33</sup> Serum Glutamyl Oxalactate Transaminase | Check & Record | 41            | u/L     |
| <sup>34</sup> Sf-9 Performance Assay                 | Check & Record | 93            | %       |
| <sup>35</sup> Sodium                                 | Check & Record | 136           | MMOL/L  |
| <sup>36</sup> Sterility Testing                      | Negative       | Negative      |         |
| <sup>37</sup> Tetracycline                           | None Detected  | None Detected |         |
| <sup>38</sup> Total Iron Binding Capacity            | Check & Record | 224           | mcg/dL  |
| <sup>39</sup> Total Protein                          | >=3.0 to <=5.0 | 3.4           | g/dL    |
| <sup>40</sup> Transferrin                            | Check & Record | 161.2         | mg/dL   |
| <sup>41</sup> Triglycerides (TG)                     | Check & Record | 68            | mg/dL   |
| <sup>42</sup> Uric Acid                              | Check & Record | 2.20          | mg/dL   |
| <sup>43</sup> VT - Bluetongue Virus FA               | Negative       | Negative      |         |
| <sup>44</sup> VT - Bovine Adenovirus FA              | Negative       | Negative      |         |
| <sup>45</sup> VT - Bovine Parvovirus FA              | Negative       | Negative      |         |



## Certificate of Analysis

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|                                              |          |          |
|----------------------------------------------|----------|----------|
| <sup>46</sup> VT - BRSV Fluorescent Antibody | Negative | Negative |
| <sup>47</sup> VT - BVDV Fluorescent Antibody | Tested   | Tested   |
| <sup>48</sup> VT - Cytopathogenic Agents     | Negative | Negative |
| <sup>49</sup> VT - Hemadsorbing Agents       | Negative | Negative |
| <sup>50</sup> VT - Rabies Virus FA           | Negative | Negative |
| <sup>51</sup> VT - Reovirus FA               | Negative | Negative |

NOTICE: Since our sera are not pre-aged before filtration, turbidity or flocculent debris may develop upon thawing or storage. This condition does not adversely affect performance characteristic of the serum.

Quality Systems Department

Date: 12-Feb-2016





