

**Rickettsia conorii, Strain 7**

**Catalog No. NR-51408**

**Product Description:**

*Rickettsia conorii* (*R. conorii*), strain 7 was isolated from *Ornithodoros moubata* ticks from South Africa in 1946.

**Lot: 70023110<sup>1</sup>**

**Manufacturing Date: 23JUL2019**

| TEST  | SPECIFICATIONS  | RESULTS   |
|---|---|---|
| <b>Identification by Infectivity in Vero Cells<sup>2</sup></b>  | Cell rounding and sloughing   | Cell rounding and sloughing   |
| <b>Genotypic Analysis</b><br>Sequencing of <i>gltA</i> (citrate synthase) gene (~ 1060 base pairs)  | ≥ 99% identity with <i>R. conorii</i> , strain 7 (GenBank: AE006914.1)                  | 99.9% identity with <i>R. conorii</i> , strain 7 (GenBank: AE006914.1) <sup>3</sup>     |
| <b>Titer by TCID<sub>50</sub> Assay in Vero Cells by Cytopathic Effect<sup>2,4,5</sup></b>  | Report results  | 2.8 × 10 <sup>7</sup> TCID <sub>50</sub> per mL   |
| <b>Sterility (21-day incubation)</b><br>Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>6</sup><br>Trypticase soy broth, 37°C and 26°C, aerobic<br>Sabouraud broth, 37°C and 26°C, aerobic<br>Sheep blood agar, 37°C, aerobic<br>Sheep blood agar, 37°C, anaerobic<br>Thioglycollate broth, 37°C, anaerobic<br>DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub> | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth |
| <b>Mycoplasma Contamination</b><br>Agar and broth culture (14-day incubation at 37°C)<br>DNA detection by PCR of extracted Test Article nucleic acid  | None detected<br>None detected  | None detected<br>None detected  |

<sup>1</sup>NR-51408 was produced by infecting Vero cells with ATCC® VR-613 lot 2W and incubating in Dulbecco's Modified Eagle's Medium (DMEM) containing 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate, and 1500 mg per L sodium bicarbonate containing 5% fetal bovine serum (ATCC® 30-2020) for 4 days at 35°C with 5% CO<sub>2</sub>.

<sup>2</sup>*Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™)

<sup>3</sup>Also consistent with other *Rickettsia* species

<sup>4</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of organism that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of the organism preparation.

<sup>5</sup>Assay plates were incubated 8 days at 35°C with 5% CO<sub>2</sub>.

<sup>6</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798

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