

# Anaplasma phagocytophilum, Strain HGE2

Catalog No. NR-48593

## Product Description:

*Anaplasma phagocytophilum* (*A. phagocytophilum*), strain HGE2 was isolated from a human in Minnesota, USA. NR-48593 was produced by inoculation of BEI Resources seed lot 70026736) into human promyelocytic leukemia cells (HL-60; ATCC® CCL-240™) and incubated for 5 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70067964

Manufacturing Date: 06MAY2024

| TEST  | SPECIFICATIONS  | RESULTS  |
|---|---|--|
| <b>Identification by Indirect Fluorescent Antibody (IFA) Assay<sup>1</sup></b>  | Fluorescence observed   | Fluorescence observed  |
| <b>Genotypic Analysis</b><br>Sequencing of 16S ribosomal RNA gene (~ 820 base pairs)  | ≥ 99% identity with<br><i>A. phagocytophilum</i> , strain HGE2<br>(GenBank: LAOE01000001.1) | 100% identity with<br><i>A. phagocytophilum</i> , strain HGE2<br>(GenBank: LAOE01000001.1) |
| <b>Titer by TCID<sub>50</sub> Assay in HL-60 Cells by IFA<sup>1,2</sup></b><br>(9 days at 37°C with 5% CO <sub>2</sub> )  | Report results  | 2.8 × 10 <sup>4</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>3</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<br>DNA detection by PCR of extracted Test Article nucleic acid  | None detected<br>None detected  | None detected<br>None detected   |

<sup>1</sup>*A. phagocytophilum* IFA primary antibody (Fuller Laboratories EEDP) and secondary antibody (Fuller Laboratories HCG-25)

<sup>2</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>3</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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