

**Anaplasma phagocytophilum, Strain ApNYW**

**Catalog No. NR-48595**

**Product Description:**

*Anaplasma phagocytophilum* (*A. phagocytophilum*), strain ApNYW was isolated from a human in New York.

**Lot: 70026733<sup>1,2</sup>**

**Manufacturing Date: 29JUL2019**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in HL-60 Cells by Indirect Fluorescent Antibody (IFA) Assay<sup>1,3</sup></b>	Fluorescence observed	Fluorescence observed
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1280 base pairs)	≥ 99% identity with <i>A. phagocytophilum</i> , strain ApNYW (GenBank: LAOG01000008.1)	100% identity with <i>A. phagocytophilum</i> , strain ApNYW (GenBank: LAOG01000008.1) <sup>4</sup>
<b>Titer by TCID<sub>50</sub> Assay in HL-60 Cells by IFA<sup>1,3,5,6</sup></b>	Report results	2.8 × 10 <sup>4</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
<b>Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

<sup>1</sup>HL-60; ATCC® CCL-240™

<sup>2</sup>NR-48595 was produced by infecting HL-60 cells with the depositor's vial and incubating in RPMI-1640 medium containing 10% fetal bovine serum (ATCC® 30-2020) for 3 days at 37°C with 5% CO<sub>2</sub>.

<sup>3</sup>Using *A. phagocytophilum* IFA IgG reagent kit (Fuller Laboratories EEG-120)

<sup>4</sup>Also consistent with *Ehrlichia equi* and "HGE agent", however, these species were recently recognized as *A. phagocytophilum*. For more information, please see Dumler, J. S., et al. "Reorganization of Genera in the Families Rickettsiaceae and Anaplasmataceae in the Order Rickettsiales: Unification of Some Species of *Ehrlichia* with *Anaplasma*, *Cowdria* with *Ehrlichia* and *Ehrlichia* with *Neorickettsia*, Descriptions of Six New Species Combinations and Designation of *Ehrlichia equi* and 'HGE agent' as Subjective Synonyms of *Ehrlichia phagocytophila*." *Int. J. Syst. Evol. Microbiol.* 51 (2001): 2145-2165. PubMed: 11760958.

<sup>5</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>6</sup>Assay plates were incubated 8 days at 37°C with 5% CO<sub>2</sub>.

<sup>7</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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