

Anaplasma phagocytophilum, Strain NCH-1

Catalog No. NR-48807

Product Description:

Anaplasma phagocytophilum (*A. phagocytophilum*), strain NCH-1 was isolated in 1997 from the blood of a patient suffering from human granulocytic ehrlichiosis in Massachusetts, USA. NR-48807 was produced by infecting Human promyelocytic leukemia cells (HL-60; ATCC® CCL-240™) with BEI Resources seed lot 70007010 and incubating in RPMI-1640 medium containing 2 mM L-glutamine, 10 mM HEPES, 4500 mg/L glucose, 1 mM sodium pyruvate and 1500 mg/L sodium bicarbonate (ATCC® 30-2001) supplemented with 10% fetal bovine serum (ATCC® 30-2020) for 5 days at 37°C with 5% CO₂. NR-48807 was vialled in RPMI-1640 medium supplemented with 30% fetal bovine serum and 10% DMSO (final concentrations).

Lot: 70081310

Manufacturing Date: 09MAR2026

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HL-60 Cells	Clustered	Clustered
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	≥ 99.9% identity with <i>A. phagocytophilum</i> , strain NCH-1 (GenBank: LANT01000009.1)	99.9% identity with <i>A. phagocytophilum</i> , strain NCH-1 (GenBank: LANT01000009.1) ¹
Titer by TCID ₅₀ Assay in HL-60 Cells by PCR ² 14 days at 37°C with 5% CO ₂	Report results	5.0 × 10 ³ TCID ₅₀ per mL
Sterility test (BacT/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	No growth No growth	No growth No growth
Mycoplasma Contamination 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

¹Also 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.

²The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

/Sonia Bjorun Brower/

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10 JUN 2026

Technical Manager or designee, ATCC Federal Solutions

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