

Genomic DNA from *Anaplasma phagocytophilum*, Strain NCH-1

Catalog No. NR-51150

Product Description:

Genomic DNA was isolated from a preparation of cell lysate and supernatant from human promyelocytic leukemia cells (HL-60; ATCC® CCL-240™) infected with *Anaplasma phagocytophilum* (*A. phagocytophilum*), strain NCH-1 (BEI Resources lot 70036996) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906).

Lot: 70039703

Manufacturing Date: 30MAR2023

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 1360 nucleotides)	≥ 99% sequence identity to <i>A. phagocytophilum</i> , strain NCH-1 (GenBank: LANT01000009.1)	99.8% identity to <i>A. phagocytophilum</i> , strain NCH-1 (GenBank: LANT01000009.1) ¹
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by PicoGreen® Measurement (Bacterial and Cellular)²	Report results	5.5 ng per 100 µL (0.055 µg/mL)
Estimated Amount per Vial²	Report results	5.5 ng
Bacterial Inactivation 10% of total yield inoculated on HL-60 cells and evaluated by IFA ^{3,4}	No viable virus detected	No viable virus detected

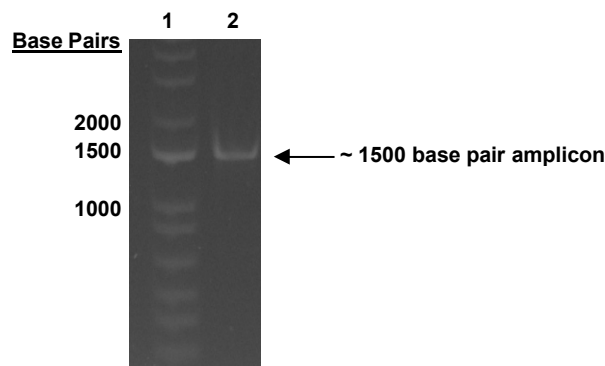
¹Also consistent with *Ehrlichia equi* and "HGE agent", however, these species were reassigned as *A. phagocytophilum*. For more information, please refer to Dumler, J. S., et al. "Reorganization of Genera in the Families Rickettsiaceae and Anaplasmataceae in the Order Rickettsiales: Unification of Some 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.

²Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method.

³Using *Anaplasma phagocytophilum* IFA IgG reagents (Fuller Laboratories EEDP and HCG-25)

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of *Anaplasma* spp.

Figure 1: Functional Activity of NR-51150 by PCR Amplification of 16S RNA Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-51150

/Sonia Bjorum Brower/

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18 AUG 2023

Technical Manager or designee, ATCC Federal Solutions

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