SUPPORTING INFECTIOUS DISEASE RESEARCH

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). The viral genomic DNA is in a background of cellular nucleic acid.

Lot: 70010364

Manufacturing Date: 12APR2018

TEST ¹	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 1370 nucleotides)	≥ 99% sequence identity to <i>A. phagocytophilum</i> , strain NCH-1 (GenBank: LANT01000009.1)	99.9% sequence identity to <i>A. phagocytophilum</i> , strain NCH-1 (GenBank: LANT01000009.1) ²
Functional Activity by PCR Amplification 16S ribosomal RNA gene	≥ 1500 base pair amplicon	~ 1500 base pair amplicon (Figure 1)
Pre-vial Concentration by PicoGreen [®] Measurement (Bacterial and Cellular) ³	Report results	0.65 ng per 100 μL (0.0065 μg/mL)
Estimated Amount per Vial ³	Report results	0.65 ng
Bacterial Inactivation 10% of total yield inoculated on HL-60 cells and evaluated by IFA ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹Genomic DNA was extracted using proprietary technology. All QC tests were completed prior to vialing.

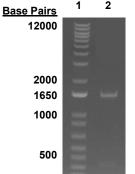
²Also consistent with *Ehrlichia equi* and "HGE agent", however, these species were recently recognized as *A. phagocytophilum*. For more information, please see Dumler, J. S., et al. "Reorganization of Genera in the Families *Rickettsiaceae* and *Anaplasmataceae* in the Order *Rickettsiales*: Unification 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.

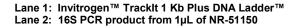
³Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method.

⁴Using Anaplasma phagocytophilum IFA IgG reagents (Fuller Laoratories EEDP and HCG-25)

⁵An 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





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Certificate of Analysis for NR-51150

09 JUN 2023

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Technical Manager or designee, ATCC Federal Solutions

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