

## Certificate of Analysis for NR-50144

### Genomic DNA from Naegleria fowleri, Strain CDC:V414

#### Catalog No. NR-50144

This reagent is the tangible property of the U.S. Government.

#### **Product Description:**

Genomic DNA was extracted from *Naegleria fowleri (N. fowleri)*, strain CDC:V414, a clinical isolate collected in 1998 from the cerebrospinal fluid of a 16-year-old male in Florida, USA. NR-50144 was extracted from a culture of BEI Resources NR-46494 lot 62819268 using proprietary technology. NR-50144 lot 70001266 is provided in 10 mM Tris-HCI, 1 mM EDTA, pH 7.5.

Lot: 70001266 Manufacturing Date: 22FEB2016

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen® Measurement	0.2 to 3.5 µg in 20 to 200 µL per vial	1.6 µg in 153 µL per vial (10.7 µg per mL)
Amount per Vial	0.2 to 3.5 μg	1.6 µg
Genotypic Analysis Sequencing of Internal Transcribed Spacer (ITS) 1, 5.8S ribosomal RNA (rRNA) gene, ITS 2 (~ 545 base pairs)	Consistent with N. fowleri	Consistent with <i>N. fowleri</i> (genotype I) <sup>1,2</sup>
Functional Activity by PCR Amplification ITS 1, 5.8S rRNA gene, ITS 2 <sup>3</sup>	~ 600 base pair amplicon	~ 600 base pair amplicon
OD <sub>260</sub> /OD <sub>280</sub> Ratio	1.7 to 2.1	1.9
Protozoan Inactivation 10% of total yield inoculated in Modified PYNFH medium supplemented with 10% heat- inactivated fetal bovine serum and incubated for 14 days at 35°C in an aerobic atmosphere	No viable organisms detected	No viable organisms detected

For genotyping details refer to Zhou, L., et al. "Genetic Variations in the Internal Transcribed Spacer and Mitochondrial Small Subunit rRNA Gene of Naegleria Spp." J. Eukaryot. Microbiol. 50 (2003): 522-526. PubMed: 14736150.

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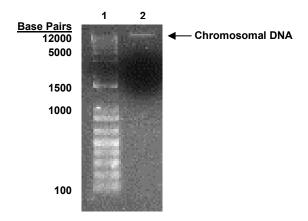
<sup>&</sup>lt;sup>2</sup>Also consistent with *Naegleria Iovaniensis* 

<sup>&</sup>lt;sup>3</sup>PCR amplification was performed using the NF-ITS-F1 and NT-ITS-F2 primer set as described in Zhou, L., et al. "Genetic Variations in the Internal Transcribed Spacer and Mitochondrial Small Subunit rRNA Gene of *Naegleria* Spp." J. Eukaryot. Microbiol. 50 (2003): 522-526. PubMed: 14736150.



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Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: ~ 200 ng of NR-50144

/Heather Couch/ Heather Couch

15 APR 2022

Program Manager or designee, ATCC Federal Solutions

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