b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-46499

Naegleria fowleri, Strain CDC:V596

Catalog No. NR-46499

Product Description: *Naegleria fowleri (N. fowleri)*, strain CDC:V596 is a clinical isolate collected in 2007 from the cerebral spinal fluid of a male patient.

Lot[1]: 62892081 **Manufacturing Date: 22AUG2014**

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of Internal Transcribed Spacer 1 (ITS 1) and 5.8S ribosomal RNA gene (~ 580 base pairs)	Consistent with *N. fowleri*	Consistent with *N. fowleri*, genotype III[2]
Functional Activity by PCR Amplification[3] ITS 1, 5.8S ribosomal RNA gene	~ 600 base pair amplicon	~ 600 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10^6 cells/mL	5.5 x 10^6 cells/mL
Viability (post-freeze)[4]	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth[5], 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	 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

[1]NR-46499 was produced by cultivation of the deposited material in modified PYNFH medium (ATCC® medium 1034) supplemented with 10% heat-inactivated fetal bovine serum for 4 days at 35°C in an aerobic atmosphere until peak density was reached.
[2]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.
[3]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.
[4]Viable cells were observed after 1 day under cultivation conditions.
[5]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 11 NOV 2014 **Signature:**

Title: Technical Manager, BEI Authentication or designee

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E-mail: contact@beiresources.org
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