

***Naegleria fowleri*, Strain CDC:V414**

Catalog No. NR-46494

Product Description: *Naegleria fowleri* (*N. fowleri*), strain CDC:V414 is a clinical isolate collected in 1998 from the cerebral spinal fluid of a 16-year-old male in Florida, USA.

Lot¹: 62819268

Manufacturing Date: 25JUL2014

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of Internal Transcribed Spacer 1 (ITS 1) and 5.8S ribosomal RNA gene (~ 490 base pairs)	Consistent with <i>N. fowleri</i>	Consistent with <i>N. fowleri</i> , genotype I ²
Functional Activity by PCR Amplification³ 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	8.6 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

¹NR-46494 was produced by cultivation of the deposited material in modified PYNFH medium (ATCC[®] medium 1034) supplemented with 10% heat-inactivated fetal bovine serum for 3 days at 35°C in an aerobic atmosphere until peak density was reached.

²For 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.

³PCR 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.

⁴Viable cells were observed after 1 day under cultivation conditions.

⁵Atlas, 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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