

Naegleria fowleri, Strain CDC:V020

Catalog No. NR-46489

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Product Description: *Naegleria fowleri* (*N. fowleri*), strain CDC:V020 is a clinical isolate collected in 1984 from the cerebral spinal fluid of a 12-year-old male in Texas, USA.

Lot^{1,2}: 70002373

Manufacturing Date: 23MAR2017

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology²	Report results	Adherent and refractile
Genotyping³ Sequencing of Internal Transcribed Spacer 1 (ITS), 5.8S ribosomal RNA (rRNA) gene, ITS 2 (~ 540 base pairs)	Consistent with <i>N. fowleri</i>	Consistent with <i>N. fowleri</i> (genotype I) ^{4,5}
Functional Activity by PCR Amplification^{3,6} ITS 1, 5.8S ribosomal RNA gene, ITS2	~ 600 base pair amplicon	~ 600 base pair amplicon
Viable Cell Count by Hemacytometry³	> 10 ⁶ cells/mL	5.55 × 10 ⁶ cells/mL
Viability^{2,7}	Growth	Growth
Sterility (21-day incubation)² Harpo's HTYE broth ⁸ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic DMEM with 10% FBS, 37°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-46489 was produced by cultivation of the deposited material in modified PYNFH medium (ATCC® medium 1034) supplemented with 10% heat-inactivated fetal bovine serum for 13 days at 35°C in an aerobic atmosphere until peak density was reached.

²Testing completed on vial, post-freeze material.

³Testing completed on bulk material prior to vialing and freezing.

⁴For 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.

⁵Also consistent with *Naegleria lovaniensis*

⁶PCR 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.

⁷Viable cells were observed after 1 day at 35°C in an aerobic atmosphere.

⁸Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 16 AUG 2017

Signature:



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