

Naegleria fowleri, Strain CDC:V625

Catalog No. NR-46504

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Product Description: *Naegleria fowleri* (*N. fowleri*), strain CDC:V625 is a clinical isolate collected in 2010 from the cerebral spinal fluid of a 7-year-old male.

Lot^{1,2}: 0002029

Manufacturing Date: 11OCT2016

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology	Report results	Adherent, refractile
Genotyping Sequencing of Internal Transcribed Spacer 1 (ITS 1) and 5.8S ribosomal RNA gene (~ 550 base pairs)	Consistent with <i>N. fowleri</i>	Consistent with <i>N. fowleri</i> , genotype I ³
Functional Activity by PCR Amplification⁴ 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	1.02 × 10 ⁷ cells/mL
Viability⁵	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 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-46504 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.

²Quality control testing completed on post-freeze material unless specified as pre-freeze.

³For 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.

⁴PCR 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.

⁵Viable cells were observed after 1 day in modified PYNFH medium supplemented with 10% heat-inactivated fetal bovine serum at 35°C in an aerobic atmosphere.

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 29 MAR 2017

Signature:

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