

**Naegleria fowleri, Strain CDC:V455**

**Catalog No. NR-46495**

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**Product Description:** *Naegleria fowleri* (*N. fowleri*), strain CDC:V455 is a clinical isolate collected in 2000 from a brain biopsy sample from a male in Nevada, USA.

**Lot<sup>1</sup>: 70002521**

**Manufacturing Date: 10FEB2017**

TEST	SPECIFICATIONS	RESULTS
<b>Cellular Morphology<sup>2</sup></b>	Report results	Refractile
<b>Genotyping<sup>3</sup></b> Sequencing of Internal Transcribed Spacer 1 (ITS), 5.8S ribosomal RNA (rRNA) gene, ITS 2 (~ 580 base pairs)	Consistent with <i>N. fowleri</i>	Consistent with <i>N. fowleri</i> (genotype III) <sup>4,5</sup>
<b>Functional Activity by PCR Amplification<sup>3,6</sup></b> ITS 1, 5.8S rRNA gene	~ 600 base pair amplicon	~ 600 base pair amplicon
<b>Viable Cell Count by Hemacytometry<sup>3</sup></b>	> 10 <sup>6</sup> cells/mL	1.65 x 10 <sup>6</sup> cells/mL
<b>Viability<sup>2,7</sup></b>	Growth	Growth
<b>Sterility (21-day incubation)<sup>2</sup></b> Harpo's HTYE broth <sup>8</sup> , 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

<sup>1</sup>NR-46495 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.

<sup>2</sup>Testing completed on vial, post-freeze material.

<sup>3</sup>Testing completed on bulk material prior to vialing and freezing.

<sup>4</sup>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.

<sup>5</sup>Also consistent with *Naegleria lovaniensis*

<sup>6</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.

<sup>7</sup>Viable cells were observed after 1 day under cultivation conditions.

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

**Date:** 21 JUN 2017

**Signature:**

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