

***Acanthamoeba* sp., Strain CDC:V017**

**Catalog No. NR-46460**

**Product Description:** *Acanthamoeba* sp., strain CDC:V017 was isolated in 1984 from the infected maxillary sinus of a 29-year-old man in the USA.

**Lot<sup>1</sup>: 62692907**

**Manufacturing Date: 06JUN2014**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of 18S ribosomal RNA gene (~ 320 base pairs)	Consistent with <i>Acanthamoeba</i> sp.	Consistent with <i>Acanthamoeba</i> sp. <sup>2</sup> (Genotype T4)
<b>Functional Activity by PCR Amplification<sup>3</sup></b> 18S ribosomal RNA gene (amplicon ASA.S1)	423 to 551 base pair amplicon	~ 450 base pair amplicon
<b>Viable Cell Count by Hemacytometry (pre-freeze)</b>	> 10 <sup>6</sup> cells/mL	7.5 x 10 <sup>6</sup> cells/mL
<b>Viability (post-freeze)<sup>4</sup></b>	Growth	Growth
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>5</sup> , 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

<sup>1</sup>NR-46460 was produced by cultivation of the deposited material in PYG Medium (ATCC® medium 712) for 3 days at 25°C in an aerobic atmosphere and preserved.

<sup>2</sup>> 99.7% identical to *Acanthamoeba* sp., strain CDC:V017 (GenBank: AY702983.1)

<sup>3</sup>PCR amplification was performed using the JDP1 and JDP2 primer set (JDP1: 5'-GGCCCAGATCGTTTACCGTGAA-3' and JDP2: 5'-TCTCACAAAGCTGCTAGGGAGTCA-3') as described in Schroeder, J. M. et al. "Use of Subgenetic 18S Ribosomal DNA PCR and Sequencing for Genus and Genotype Identification of *Acanthamoebae* from Humans with Keratitis and from Sewage Sludge." *J. Clin. Microbiol.* 39 (2001): 1903-1911. PubMed: 11326011.

<sup>4</sup>Viable cells were observed after 1 day under cultivation conditions.

<sup>5</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 23 OCT 2014

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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