

Acanthamoeba sp., Strain CDC:V454

Catalog No. NR-46471

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Product Description: *Acanthamoeba* sp., strain CDC:V454 is a clinical isolate collected in 2000 from the brain tissue of a 42-year-old male patient.

Lot^{1,2}: 64479968

Manufacturing Date: 22AUG2016

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology	Report results	Adherent and refractile
Genotyping Sequencing of 18S ribosomal RNA gene (~ 430 base pairs)	Consistent with <i>Acanthamoeba</i> sp.	Consistent with <i>Acanthamoeba</i> sp. (Genotype T1)
Functional Activity by PCR Amplification³ 18S ribosomal RNA gene (amplicon ASA.S1)	423 to 551 base pair amplicon	~ 450 base pair amplicon
Viable Cell Count by Hemocytometry (pre-freeze)	> 10 ⁶ cells/mL	8.3 × 10 ⁶ cells/mL
Viability⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Tryptic Soy broth, 37°C and 26°C, aerobic Sabouraud Dextrose 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-46471 was produced by cultivation of the deposited material in Peptone Yeast Glucose (PYG) medium (ATCC® medium 712) for 5 days at 30°C in an aerobic atmosphere to produce this lot.

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

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

⁴Viable cells were observed after 1 day at 30°C in an aerobic atmosphere in PYG medium.

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

Date: 28 MAR 2017

Signature:



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