# Certificate of Analysis for NR-46480

## *Acanthamoeba* sp., Strain CDC:V609

## Catalog No. NR-46480

This reagent is the tangible property of the U.S. Government.

**Product Description:** *Acanthamoeba* sp., strain CDC:V609 is a clinical isolate collected in 2009 from the cerebellum of a male patient in Virginia, USA.

**Lot[1]: 70005174** **Manufacturing Date: 05MAY2017**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Cellular Morphology[2]** | Report results | Adherent and non-adherent |
| **Genotypic Analysis[3]**<br>Sequencing of 18S ribosomal RNA (rRNA) gene (~ 440 base pairs) | Consistent with *Acanthamoeba* sp. | Consistent with *Acanthamoeba* sp. |
| **Functional Activity by PCR Amplification[3,4]**<br>18S rRNA gene (amplicon ASA.S1) | 423 to 551 base pair amplicon | ~ 500 base pair amplicon |
| **Viable Cell Count by Hemocytometry[3]** | > $10^6$ cells per mL | 1.4 × $10^7$ cells per mL |
| **Viability[2,5]** | Growth | Growth |
| **Sterility (21-day incubation)[2]**<br>Harpo's HTYE broth[6], 37°C and 26°C, aerobic<br>Tryptic Soy broth, 37°C and 26°C, aerobic<br>Sabouraud Dextrose broth, 37°C and 26°C, aerobic<br>DMEM with 10% FBS, 37°C, aerobic<br>Sheep Blood agar, 37°C, aerobic<br>Sheep Blood agar, 37°C, anaerobic<br>Thioglycollate broth, 37°C, anaerobic | <br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth | <br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth |

[1]NR-46480 was produced by cultivation of the deposited material in Peptone Yeast Glucose (PYG) medium (ATCC® medium 712) for 3 days at 37°C in an aerobic atmosphere to produce this lot.
[2]Testing completed on vialed, post-freeze material
[3]Testing completed on bulk material prior to vialing and freezing
[4]PCR 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 Acanthamoebae from Humans with Keratitis and from Sewage Sludge." J. Clin. Microbiol. 39 (2001): 1903-1911. PubMed: 11326011.
[5]Viable cells were observed after 2 days at 37°C in an aerobic atmosphere in PYG medium.
[6]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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