

***Leptospira interrogans*, Strain L495 (Serovar Manilae)**

**Catalog No. NR-19816**

**Product Description:** *Leptospira interrogans* (*L. interrogans*), strain L495 (serovar Manilae) is a pathogenic wild-type strain that has been used as the parental strain in transposon mutagenesis studies.

**Lot<sup>1</sup>: 70025646**

**Manufacturing Date: 05JUN2019**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount)	Spirochete Growth below the soft agar surface (Dinger's disk) Report results	Spirochete Growth below the soft agar surface (Dinger's disk) <sup>2</sup> (Figure 1) Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)	≥ 99% sequence identity to <i>L. interrogans</i> , strain L495 (GenBank: OEJX01000061.1)	99.8% sequence identity to <i>L. interrogans</i> , strain L495 (GenBank: OEJX01000061.1) <sup>3</sup>
<b>Purity (post-freeze)<sup>4</sup></b>	No growth observed	No growth observed
<b>Viability (post-vialing)</b> Visual observation LIVE/DEAD <sup>®</sup> BacLight <sup>™</sup> Bacterial Viability	Growth Green fluorescence visible	Growth <sup>2</sup> Green fluorescence visible <sup>5</sup> (Figure 2)

<sup>1</sup>NR-19816 was produced by inoculation of the BEI Resources NRS-19816 lot 59581728 into Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) and incubated for 18 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 12 days at 30°C in an aerobic atmosphere to produce this lot.

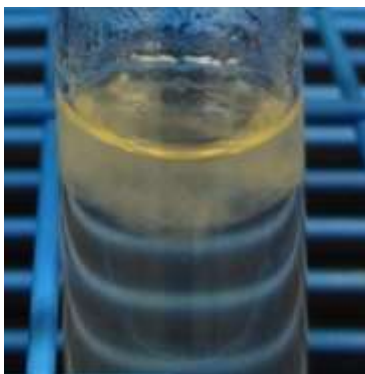
<sup>2</sup>Disk of dense growth below the soft agar surface (Dinger's disk) [Czekalowski, J. W., J. W. McLeod and J. Rodican. "The Growth and Respiration of *Leptospira* in Solid or Semi-Solid Media with Special Reference to Dinger's Phenomenon." *Br. J. Exp. Pathol.* 34 (1953): 588-595. PubMed: 13115588.] was evident after 7 days at 30°C in EMJH semisolid agar (0.15%).

<sup>3</sup>Also consistent with other *Leptospira* species

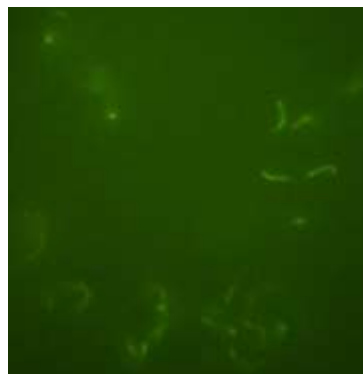
<sup>4</sup>Purity of this lot was assessed for 14 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood.

<sup>5</sup>Determined after 14 days incubation under cultivation conditions with LIVE/DEAD<sup>®</sup> BacLight<sup>™</sup> Bacterial Viability Kit, 100x magnification (Invitrogen<sup>™</sup> L34856). Cells with a compromised membrane that are dead or dying will stain red, while cells with an intact membrane will stain green.

**Figure 1: Dinger's Disk**



**Figure 2: LIVE/DEAD<sup>®</sup> BacLight<sup>™</sup> Bacterial Viability**



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