

***Leptospira interrogans*, Strain HAI0024 (Serovar Icterohaemorrhagiae/Copenhageni)**

**Catalog No. NR-19892**

**Product Description:** *Leptospira interrogans* (*L. interrogans*), strain HAI0024 (serovar Icterohaemorrhagiae/Copenhageni) is a human isolate obtained from a patient at Hospital de Apoyo in Iquitos, Peru, between 2003 and 2004.

**Lot<sup>1</sup>: 62744922**

**Manufacturing Date: 31JUL2014**

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 (730 base pairs)	Consistent with <i>L. interrogans</i>	Consistent with <i>L. interrogans</i> <sup>3,4</sup>
<b>Purity (post-freeze)<sup>5</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 (Figure 2) <sup>6</sup>

<sup>1</sup>NR-19892 was produced by inoculation of the deposited material into Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) for 2 days at 30°C in an aerobic atmosphere, and the resulting subculture was vialled and frozen. NR-19892 was produced by inoculation of the frozen subculture into EMJH semisolid agar (0.15%) and grown 19 days at 30°C in an aerobic atmosphere. The material from this growth was passaged once in EMJH semisolid agar (0.15%) for 10 days under propagation conditions 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.) was evident after 12 days at 30°C in EMJH semisolid agar (0.15%).

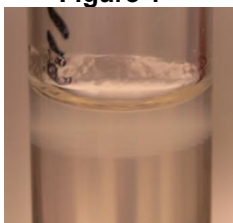
<sup>3</sup>Also consistent with other *Leptospira* species

<sup>4</sup>100% identical to *L. interrogans*, strain HAI0024 (GenBank: AFLQ01000215.1)

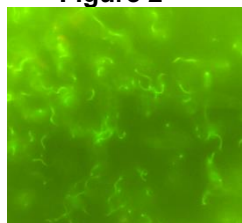
<sup>5</sup>Purity of this lot was assessed for 12 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

<sup>6</sup>Determined after 12 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**



**Figure 2**



**Date:** 22 DEC 2014

**Signature:** 

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

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