

***Leptospira interrogans*, Strain Verdun LP (Serovar Icterohaemorrhagiae)**

**Catalog No. NR-19928**

**Product Description:** *Leptospira interrogans* (*L. interrogans*), strain Verdun LP (serovar Icterohaemorrhagiae) was isolated in 1986 from a human in France.

**Lot<sup>1</sup>: 62359955**

**Manufacturing Date: 07MAR2014**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount)	Spirochete Growth below the soft agar surface (Dinger's disk) Motile	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 (~ 880 base pairs)	Consistent with <i>L. interrogans</i>	Consistent with <i>L. interrogans</i> <sup>3,4</sup>
<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>5</sup>

<sup>1</sup>NR-19928 was produced by inoculation of the deposited material into Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) for 17 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 14 days at 30°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 30°C and 37°C in an aerobic atmosphere.

<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 16 days at 30°C in EMJH semisolid agar (0.15%).

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

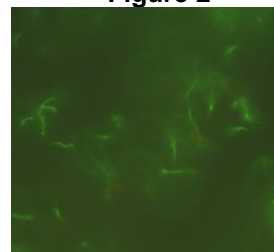
<sup>4</sup>≥ 99% identical to *L. interrogans*, strain Verdun LP (GenBank: AKWP02000011.1)

<sup>5</sup>Determined after 16 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:** 17 JUN 2014

**Signature:** 

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

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