

***Leptospira kirschneri*, Strain 1051 (Serovar Bim)**

**Catalog No. NR-22287**

**Product Description:** *Leptospira kirschneri* (*L. kirschneri*), strain 1051 (serovar Bim) was isolated from the kidney of a stray afebrile dog in Barbados. The isolate was obtained from the Centers for Disease Control.

**Lot<sup>1</sup>: 62380298**

**Manufacturing Date: 27MAR2014**

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 (1230 base pairs)	Consistent with <i>L. kirschneri</i>	Consistent with <i>L. kirschneri</i> <sup>3,4</sup>
<b>Purity (post-freeze)<sup>5</sup></b>	Growth consistent with <i>L. kirschneri</i>	Growth consistent with <i>L. kirschneri</i>
<b>Viability (post-vialing)</b> Visual observation LIVE/DEAD <sup>®</sup> BacLight <sup>™</sup> Bacterial Viability <sup>6</sup>	Growth Green fluorescence visible	Growth <sup>2</sup> Green fluorescence visible <sup>6</sup>

<sup>1</sup>The deposited material was grown in Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) for 47 days at 30°C in an aerobic atmosphere. EMJH containing 20% glycerol was added to an equal volume of culture and the resulting mixture was vialled and frozen. NR-22287 was produced by inoculation of the frozen subculture into EMJH semisolid agar (0.15%) and incubated for 22 days at 30°C in an aerobic atmosphere. The material from the second growth was passaged in EMJH semisolid agar (0.15%) for 22 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.) was evident after 17 days at 30°C in EMJH semisolid agar (0.15%).

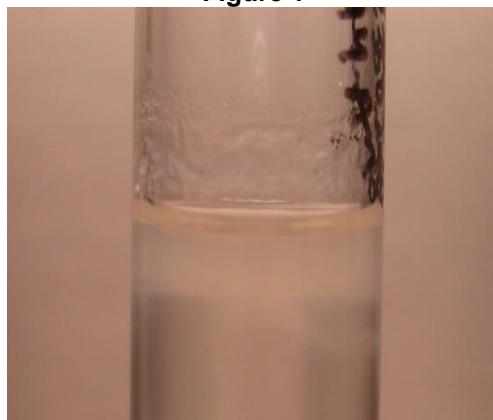
<sup>3</sup>Also consistent with other *Leptospira* species

<sup>4</sup>≥ 99.9 % identical to *L. kirschneri*, strain 1051 (GenBank: AHML02000027)

<sup>5</sup>Purity of this lot was assessed for 17 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>.

<sup>6</sup>Determined after 17 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**



## Certificate of Analysis for NR-22287

**Date:** 29 AUG 2014

**Signature:** 

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

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