

***Leptospira hovindhougenui*, Strain B5-022 (Serovar Osterbro)**

**Catalog No. NR-35360**

**Product Description:** *Leptospira hovindhougenui* (*L. hovindhougenui*), strain B5-022 (serovar Osterbro) was isolated in Denmark from a Norway rat (*Rattus norvegicus*).

**Lot<sup>1</sup>: 62380314**

**Manufacturing Date: 12MAR2014**

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> Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	Consistent with <i>Leptospira</i> spp.	Consistent with <i>Leptospira</i> spp. <sup>3</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 1) <sup>4</sup>

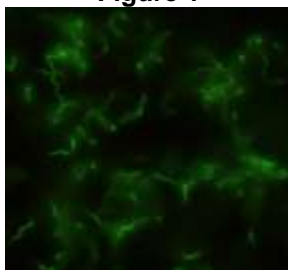
<sup>1</sup>NR-35360 was produced by inoculation of the deposited material into Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) and incubated for 15 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 6 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 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>.

<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 7 days at 30°C in EMJH semisolid agar (0.15%).

<sup>3</sup>≥ 99% identical to *Leptospira* sp, strain B5-022 (GenBank: ANIJ01000006.1)

<sup>4</sup>Determined after 7 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**



**Date:** 17 JUN 2014

**Signature:**

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

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