

**Leptospira interrogans, Strain CSL4002 (Serovar Pomona)**

**Catalog No. NR-35358**

This reagent is the tangible property of the U.S. Government.

**Product Description:**

*Leptospira interrogans* (*L. interrogans*), strain CSL4002 (serovar Pomona) was isolated from a sea lion in California, USA. NR-35358 lot 70031223 was produced by inoculation of the deposited material into EMJH semisolid agar (0.15%) and grown for 41 days at 30°C in an aerobic atmosphere. The material from this growth was passaged once in EMJH semisolid agar (0.15%) for 23 days at 30°C in an aerobic atmosphere to produce this lot.

**Lot: 70031223**

**Manufacturing Date: 20FEB2020**

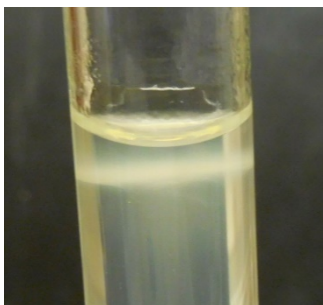
TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology 20 days at 33°C in an aerobic atmosphere in EMJH semisolid agar (0.15%) Colony morphology Motility (wet mount)	Spirochete  Growth below the soft agar surface (Dinger's disk) Report results	Spirochete  Growth below the soft agar surface (Dinger's disk) <sup>1</sup> (Figure 1) Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA (rRNA) gene (~ 1450 base pairs)	≥ 99% sequence identity to <i>L. interrogans</i> , strain CSL4002 (GenBank: ANMZ01000132.1)	99.9% sequence identity to <i>L. interrogans</i> , strain CSL4002 (GenBank: ANMZ01000132.1) <sup>2</sup>
<b>Purity</b> 20 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> in Tryptic Soy agar with 5% defibrinated sheep blood	No growth	No growth
<b>Viability (post-freeze)</b> Visual observation 20 days at 33°C in an aerobic atmosphere in EMJH semisolid agar (0.15%) LIVE/DEAD <sup>®</sup> BacLight <sup>™</sup> Bacterial Viability	Growth  Green fluorescence visible	Growth  Green fluorescence visible <sup>3</sup> (Figure 2)

<sup>1</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 20 days at 30°C in an aerobic atmosphere in EMJH semisolid agar (0.15%).

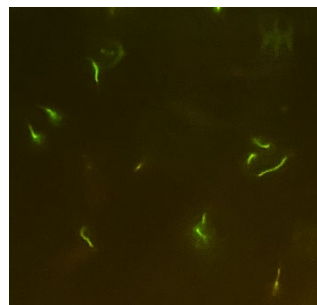
<sup>2</sup>Also consistent with other *Leptospira* species

<sup>3</sup>Determined after 20 days at 30°C in an aerobic atmosphere in EMJH semisolid agar (0.15%) with LIVE/DEAD<sup>®</sup> BacLight<sup>™</sup> Bacterial Viability Kit, 1000× 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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02 SEP 2020

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