

***Leptospira interrogans*, Strain RGA (Serovar Icterohaemorrhagiae)**

**Catalog No. NR-35349**

**Product Description:** *Leptospira interrogans* (*L. interrogans*), strain RGA (serovar Icterohaemorrhagiae) is a pathogenic strain that originated from a human with Weil's disease through guinea pig passages in 1915.

**Lot<sup>1</sup>: 63337713**

**Manufacturing Date: 06MAY2015**

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> Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1410 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 1) <sup>6</sup>

<sup>1</sup>NR-35349 was produced by inoculation of the deposited material into EMJH semisolid agar (0.15%) and grown for 17 days at 30°C in an aerobic atmosphere. The material from this growth was passaged once in EMJH semisolid agar (0.15%) for 20 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 31 days at 30°C in EMJH semisolid agar (0.15%).

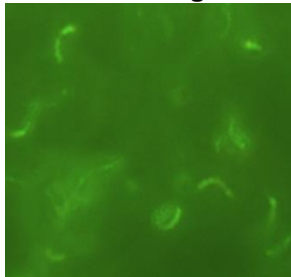
<sup>3</sup>Also consistent with other *Leptospira* species

<sup>4</sup>100% identical to *L. interrogans*, strain RGA (GenBank: AOVR01000059.1)

<sup>5</sup>Purity of this lot was assessed by weekly observations 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>6</sup>Determined after 31 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: LIVE/DEAD<sup>®</sup> BacLight<sup>™</sup> Bacterial Viability**



**Date:** 13 OCT 2015

**Signature:**

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