

***Leptospira interrogans*, Strain 2006006971 (Serovar Grippotyphosa)**

Catalog No. NR-19434

Product Description:

Leptospira interrogans (*L. interrogans*), strain 2006006971 (serovar Grippotyphosa) was isolated from a human in Egypt. NR-19434 was produced by inoculation of BEI Resources seed lot 62819123 onto Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%), which was grown for 64 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 17 days at 30°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70063502

Manufacturing Date: 18DEC2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 46 days in EMJH semisolid agar (0.15%) at 30°C in an aerobic atmosphere Motility (wet mount)	Spirochetes Growth below the soft agar surface (Dinger's disk) Motile	Spirochetes Growth below the soft agar surface (Dinger's disk) ¹ (Figure 1) Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	≥ 99% sequence identity to <i>L. interrogans</i> , strain 2006006971 (GenBank: AFJ001000737.1)	100% sequence identity to <i>L. interrogans</i> , strain 2006006971 (GenBank: AFJ001000737.1) ²
Purity (post-freeze) 46 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere	No growth observed	No growth observed
Viability (post-freeze) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability	Growth Green fluorescence visible	Growth ³ Green fluorescence visible ³ (Figure 2)

¹Disk 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 46 days at 30°C in EMJH semisolid agar (0.15%).

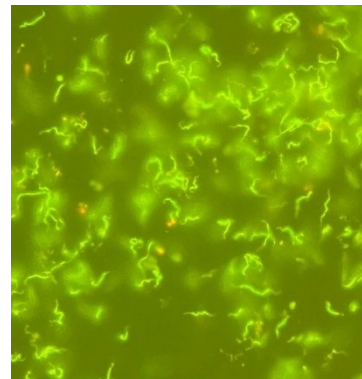
²Also consistent with other *Leptospira* species

³Viability was determined after 46 days of incubation under cultivation conditions with LIVE/DEAD[®] BacLight[™] Bacterial Viability Kit, 100× magnification (Invitrogen[™] L7007). 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[®] BacLight[™] Bacterial Viability



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