

***Leptospira wolffii*, Strain Korat-H2T (Serovar Korat)**
Catalog No. NR-22250
Product Description:

Leptospira wolffii (*L. wolffii*), strain Korat-H2T (serovar Korat) was isolated in 2007 from the urine of an adult male in Nakomrachasima Province, Thailand. NR-22250 was produced by inoculation of BEI Resources lot 62385763 onto Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%), which was grown for 9 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 8 days at 30°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

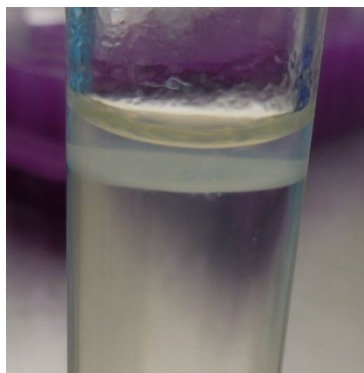
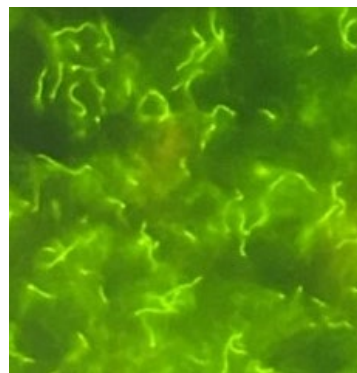
Lot: 70064253
Manufacturing Date: 09NOV2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 8 days at 30°C in an aerobic atmosphere (EMJH) semisolid agar (0.15%) 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. wolffii</i> , strain Korat-H2T (GenBank: AKWX02000004.1)	100% sequence identity to <i>L. wolffii</i> , strain Korat-H2T (GenBank: AKWX02000004.1) ²
Purity (post-freeze) 8 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 8 days at 30°C in EMJH semisolid agar (0.15%).

²Also consistent with other *Leptospira* species

³Determined after 8 days incubation under cultivation conditions with LIVE/DEAD® BacLight™ Bacterial Viability Kit, 100x magnification (Invitrogen™ 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® BacLight™ Bacterial Viability


/Sonia Bjorum Brower/

Sonia Bjorum Brower

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