

Leptospira kmetyi, Strain Bejo-Iso9T (Serovar Malaysia)

Catalog No. NR-22254

Product Description: *Leptospira kmetyi* (*L. kmetyi*), strain Bejo-Iso9T (serovar Malaysia) is a pathogenic strain isolated from a soil sample collected in Johor, Malaysia.

Lot¹: 62380292

Manufacturing Date: 25MAR2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis 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) ² (Figure 1) Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	Consistent with <i>L. kmetyi</i>	Consistent with <i>L. kmetyi</i> ^{3,4}
Viability (post-vialing) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability ⁵	Growth Green fluorescence visible	Growth ² Green fluorescence visible (Figure 2) ⁵

¹The deposited material was inoculated into Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) and grown 17 days at 30°C in an aerobic atmosphere, and the resulting growth was vialled and frozen. NR-22254 was produced by inoculation of the frozen subculture into EMJH semisolid agar (0.15%) and incubated for 12 days at 30°C in an aerobic atmosphere. The material from the second growth was passaged in EMJH semisolid agar (0.15%) for 13 days at 30°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 8 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO₂.

²Disk 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 13 days at 30°C in EMJH semisolid agar (0.15%).

³Also consistent with other *Leptospira* species

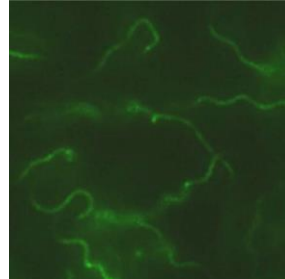
⁴≥ 99% identical to *L. kmetyi*, strain Bejo-Iso9T (GenBank: AHMP02000003.1)

⁵Determined after 65 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



Figure 2



Date: 26 JUN 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

ATCC[®] is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

