

***Leptospira interrogans*, Strain M1352, LPS Mutant (Serovar Manilae)**

Catalog No. NR-19820

Product Description: *Leptospira interrogans* (*L. interrogans*), strain M1352 (serovar Manilae) is a transposon mutant of wild-type strain L495 created by disruption of a gene of unknown function, *Lman_1408*, located downstream of a putative sugar pyridoxal-phosphate-dependent aminotransferase and 208 base pairs upstream of a putative *rmIC* (dTDP-4-dehydrorhamnose 3,5-epimerase), within the LPS biosynthesis locus of strain L495.

Lot¹: 59581727

Manufacturing Date: 06JAN2011

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology	Growth below the soft agar surface (Dinger's disk)	Growth below the soft agar surface (Dinger's disk) ²
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1360 base pairs)	Consistent with <i>L. interrogans</i>	Consistent with <i>L. interrogans</i> ³
Viability (post-vialing) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability	Growth Green fluorescence visible	Growth ² Green fluorescence visible ⁴

¹*L. interrogans*, strain M1352 (serovar Manilae) was deposited by Ben Adler, Professor of Microbiology, Monash University, Clayton, Victoria, Australia. The deposited material was inoculated into EMJH semisolid agar (0.15%) and incubated for 21 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged twice in EMJH semisolid agar (0.15%) for 18 days and 17 days, respectively, at 30°C in an aerobic atmosphere to produce this lot.

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 15 days at 30°C in EMJH semisolid agar (0.15%).

³Also consistent with other *Leptospira* species

⁴Determined after 15 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.

Date: 31 JAN 2013

Signature: 

Title: Technical Manager, BEI Authentication or designee

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