

Leptospira fainei, Strain BUT 6T (Serovar Hurstbridge)

Catalog No. NR-22252

Product Description: *Leptospira fainei* (*L. fainei*), strain BUT 6T (serovar Hurstbridge) was isolated in 1994 from the uteri and kidney of a female pig in New South Wales, Australia.

Lot¹: 62359961

Manufacturing Date: 13MAR2014

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. fainei</i>	Consistent with <i>L. fainei</i> ^{3,4}
Viability (post-vialing) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability	Growth Green fluorescence visible	Growth ² Green fluorescence visible (Figure 2) ⁵

¹NR-22252 was produced from a frozen subculture of the deposited material. The subculture was cultivated in Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) for 16 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 7 days at 30°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 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 24 days at 30°C in EMJH semisolid agar (0.15%).

³Also consistent with other *Leptospira* species

⁴≥ 99% identical to *L. fainei*, strain BUT 6T (GenBank: AKWZ02000001.1)

⁵Determined after 24 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

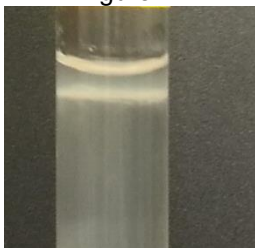
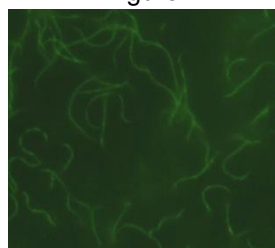


Figure 2



Date: 17 JUN 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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