

Leptospira noguchii, Strain CZ 214T (Serovar Panama)
Catalog No. NR-22283
Product Description:

Leptospira noguchii (*L. noguchii*), strain CZ 214T (serovar Panama) was isolated from an opossum (*Didelphis marsupialis*) kidney obtained from Panama (Canal Zone) in 1962. Isolation of the organism occurred in Statens Serum Institute in Copenhagen, Denmark. NR-22283 was produced by inoculation of BEI Resources seed lot 62380302 onto Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%), which was grown for 22 days at 30°C in an aerobic atmosphere. The material from the initial growth was passaged once in EMJH semisolid agar (0.15%) for 20 days at 30°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

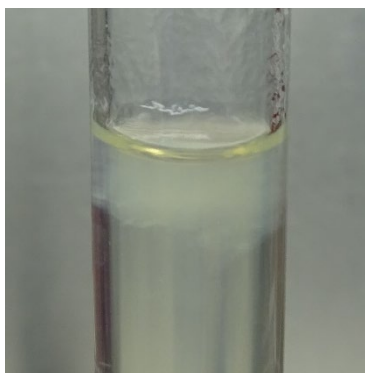
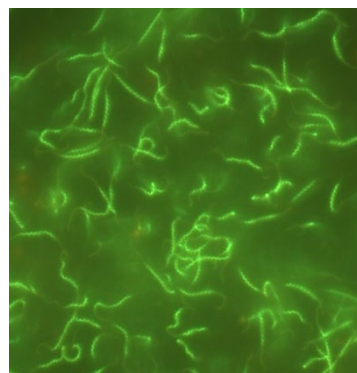
Lot: 70075487
Manufacturing Date: 05JUN2025

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology 20 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. noguchii</i> , strain CZ 214T (GenBank: AKWY02000013.1)	99.9% sequence identity to <i>L. noguchii</i> , strain CZ 214T (GenBank: AKWY02000013.1) ²
Purity (post-freeze) 24 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 20 days at 30°C in EMJH semisolid agar (0.15%).

²Also consistent with other *Leptospira* species.

³Determined after 20 days incubation under cultivation conditions with LIVE/DEAD® BacLight™ Bacterial Viability Kit, 1000x 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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09 OCT 2025

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