

***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.

Lot¹: 62380297

Manufacturing Date: 27MAR2014

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 (~ 1470 base pairs)	Consistent with <i>L. noguchii</i>	Consistent with <i>L. noguchii</i> ^{3,4}
Purity (post-freeze)⁵	Growth consistent with <i>L. noguchii</i>	Growth consistent with <i>L. noguchii</i>
Viability (post-vialing) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability ⁶	Growth Green fluorescence visible	Growth ² Green fluorescence visible ⁶

¹The deposited material was grown in Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) for 47 days at 30°C in an aerobic atmosphere. EMJH containing 20% glycerol was added to an equal volume of culture and the resulting mixture was vialled and frozen. NR-22283 was produced by inoculation of the frozen subculture into EMJH semisolid agar (0.15%) and incubated for 22 days at 30°C in an aerobic atmosphere. The material from the second growth was passaged in EMJH semisolid agar (0.15%) for 22 days 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 17 days at 30°C in EMJH semisolid agar (0.15%).

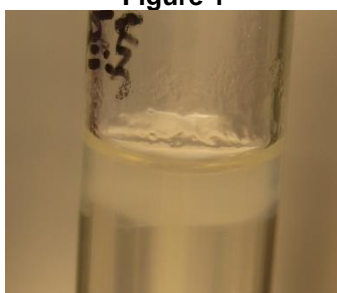
³Also consistent with other *Leptospira* species

⁴≥ 99.9 % identical to *L. noguchii*, strain CZ 214T (GenBank: AKWY02000013)

⁵Purity of this lot was assessed for 17 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere with 5% CO₂.

⁶Determined after 17 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



Date: 29 AUG 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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