

***Borrelia burgdorferi*, Signature-Tagged Mutagenesis Library Clone T06TC049 (Gene BB_0116)**

Catalog No. NR-23637

Product Description: *Borrelia burgdorferi* (*B. burgdorferi*), strain B31 5A18NP1 STM library clone T06TC049 was produced by signature-tagged mutagenesis (STM) of the BB_0116 gene.

Lot¹: 63527797

Manufacturing Date: 12JUN2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ² Motility (wet mount)	Spirochete Report results	Spirochete (Figure 1) Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	Consistent with <i>B. burgdorferi</i>	Consistent with <i>B. burgdorferi</i> ³
Purity (post-freeze)⁴	No growth observed	No growth observed
Viability (post-freeze) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability ⁵	Growth Green fluorescence visible	Growth ² Green fluorescence visible

¹NR-23637 was produced by inoculation of the deposited material into Revised Barbour-Stoenner-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin and grown 11 days at 32°C in a microaerophilic atmosphere to produce this lot.

²10 days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin

³≥ 99.9% identical to GenBank: AE000783 (*B. burgdorferi*, strain B31)

⁴10 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

⁵Determined after 10-day 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: Cellular Morphology



Date: 27 AUG 2015

Signature:

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