

***Borrelia burgdorferi*, Signature-Tagged Mutagenesis Library Clone T05TC022 (Gene BB_0591)**

Catalog No. NR-23029

Product Description: *Borrelia burgdorferi* (*B. burgdorferi*), strain B31 5A18NP1 STM library clone T05TC022 was produced by signature-tagged mutagenesis (STM) of the BB_0591 gene.

Lot¹: 63527772

Manufacturing Date: 12JUN2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ² Motility (wet mount)	Spirochete Report results	Spirochete Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 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	Growth Green fluorescence visible	Growth ² Green fluorescence visible (Figure 1) ⁵

¹NR-23029 was produced by inoculation of the deposited material into Revised Barbour-Stoener-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.

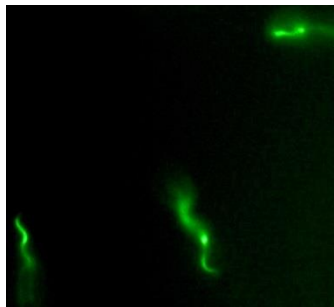
²7 days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoener-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin

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

⁴Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

⁵Determined after 7-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: LIVE/DEAD[®] BacLight[™] Bacterial Viability



Date: 14 OCT 2015

Signature:

BEI Resources Authentication

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