

***Borrelia burgdorferi*, Signature-Tagged Mutagenesis Library Clone T05TC025 (Gene BB\_0629)**

**Catalog No. NR-23032**

**Product Description:** *Borrelia burgdorferi* (*B. burgdorferi*), strain B31 5A18NP1 STM library clone T05TC025 was produced by signature-tagged mutagenesis (STM) of the BB\_0629 gene.

**Lot<sup>1</sup>: 63527779**

**Manufacturing Date: 12JUN2015**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>2</sup> Motility (wet mount)	Spirochete Report results	Spirochete Motile
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1410 base pairs)	Consistent with <i>B. burgdorferi</i>	Consistent with <i>B. burgdorferi</i> <sup>3</sup>
<b>Purity (post-freeze)<sup>4</sup></b>	No growth observed	No growth observed
<b>Viability (post-freeze)</b> Visual observation LIVE/DEAD <sup>®</sup> BacLight <sup>™</sup> Bacterial Viability	Growth Green fluorescence visible	Growth <sup>2</sup> Green fluorescence visible (Figure 1) <sup>5</sup>

<sup>1</sup>NR-23032 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.

<sup>2</sup>7 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

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

<sup>4</sup>Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood.

<sup>5</sup>Determined after 7-day incubation under cultivation conditions with LIVE/DEAD<sup>®</sup> BacLight<sup>™</sup> Bacterial Viability Kit, 100x magnification (Invitrogen<sup>™</sup> 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<sup>®</sup> BacLight<sup>™</sup> Bacterial Viability**



**Date:** 14 OCT 2015

**Signature:** 

BEI Resources Authentication

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