

***Borrelia burgdorferi*, Signature-Tagged Mutagenesis Library Clone T03TC141 (Gene BB\_0743)**

**Catalog No. NR-22425**

**Product Description:** *Borrelia burgdorferi* (*B. burgdorferi*), strain B31 5A18NP1 STM library clone T03TC141 was produced by signature-tagged mutagenesis (STM) of the BB\_0743 gene.

**Lot<sup>1</sup>: 63676563**

**Manufacturing Date: 10SEP2015**

| TEST   | SPECIFICATIONS                       | RESULTS   |
|--|--------------------------------------|---|
| <b>Phenotypic Analysis</b><br>Cellular morphology <sup>2</sup><br>Motility (wet mount)                                   | Spirochete<br>Report results         | Spirochete<br>Motile  |
| <b>Purity (post-freeze)<sup>3</sup></b>  | No growth observed                   | No growth observed  |
| <b>Viability (post-freeze)</b><br>Visual observation<br>LIVE/DEAD <sup>®</sup> BacLight <sup>™</sup> Bacterial Viability | Growth<br>Green fluorescence visible | Growth <sup>2</sup><br>Green fluorescence visible (Figure 1) <sup>4</sup> |

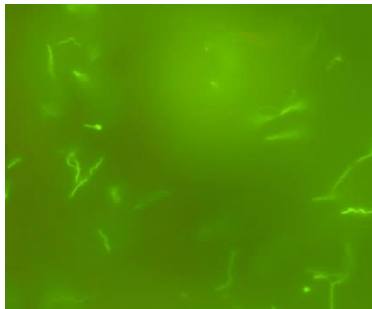
<sup>1</sup>NR-22425 was produced by inoculation of the deposited material into Revised Barbour-Stoenner-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin and grown 9 days at 32°C in a microaerophilic atmosphere to produce this lot.

<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>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>4</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:** 06 NOV 2015

**Signature:** 

**BEI Resources Authentication**

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