

***Borrelia burgdorferi*, Signature-Tagged Mutagenesis Library Clone T05TC398 (Gene BB_A57)**

Catalog No. NR-23328

Product Description: *Borrelia burgdorferi* (*B. burgdorferi*), strain B31 5A18NP1 STM library clone T05TC398 was produced by signature-tagged mutagenesis (STM) of the BB_A57 gene.

Lot¹: 63527794

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 (~ 1410 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-23328 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.

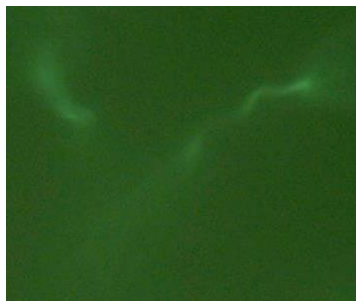
²7 days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin

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

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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