SUPPORTING INFECTIOUS DISEASE RESEARCH

# Borrelia burgdorferi, Strain B31 (Clone 5A1)

## Catalog No. NR-13251

**Product Description:** Borrelia burgdorferi (B. burgdorferi), strain B31 (clone 5A1) was derived from the original B31 strain. Clone 5A1 lacks linear plasmids lp5 and lp56 of the parent B31 strain.

### Lot<sup>1</sup>: 70021457

### Manufacturing Date: 17DEC2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology <sup>2</sup> Motility (wet mount)	Spirochete Report results	Spirochete Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 690 base pairs)	≥ 99% sequence identity to <i>B. burgdorferi</i> , strain B31 (GenBank: AE000783)	100% sequence identity to <i>B. burgdorferi</i> , strain B31 (GenBank: AE000783) <sup>3</sup>
Purity (post-freeze) Tryptic Soy agar with 5% defibrinated sheep blood <sup>4</sup>	Growth consistent with expected colony morphology or no growth	No growth
Viability (post-freeze) Visual observation LIVE/DEAD <sup>®</sup> <i>Bac</i> Light™ Bacterial Viability	Growth Green fluorescence visible	Non-turbid growth <sup>2</sup> Green fluorescence visible (Figure 1) <sup>5</sup>

<sup>1</sup>NR-13251 lot 70021457 was produced by inoculation of BEI Resources NRS-13251 lot 59535353 into Revised Barbour-Stoenner-Kelly broth and grown for 5 days at 32°C in a microaerophilic atmosphere to produce this lot.

<sup>27</sup> days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth

<sup>3</sup>Also consistent with other Borrelia species

<sup>4</sup>Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with and without 5% CO<sub>2</sub>.

<sup>5</sup>Determined after 7 days incubation at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly medium 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



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