

***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. The original B31 strain was isolated in the fall of 1981 from adult ticks (*Ixodes dammini* also referred to as *Ixodes scapularis*) collected from lower vegetation on Shelter Island, New York, USA.

Lot¹: 70000228

Manufacturing Date: 05DEC2016

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)	≥ 99% sequence identity to <i>B. burgdorferi</i> , strain B31 (GenBank: AE000783)	100% sequence identity to <i>B. burgdorferi</i> , strain B31 (GenBank: AE000783)
Purity (post-freeze)³	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) ⁴

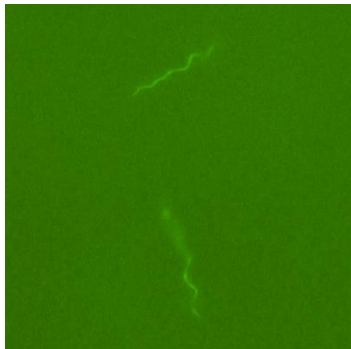
¹NR-13251 was produced by inoculation of NRS-13251 lot 59535353 into Revised Barbour-Stoenner-Kelly medium and grown for 7 days at 32°C in a microaerophilic atmosphere to produce this lot.

²6 days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly medium

³Purity of this lot was assessed for 11 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

⁴Determined after 6-day incubation under cultivation conditions with LIVE/DEAD[®] BacLight[™] Bacterial Viability Kit, 1000× 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: 10 MAR 2017

Signature:

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