Certificate of Analysis for NR-59649

Borrelia burgdorferi, Signature-Tagged Mutagenesis Library Clone T11TC016 (Gene BB_J29)

Catalog No. NR-59649

Product Description:

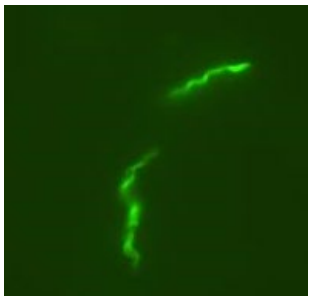
Borrelia burgdorferi (B. burgdorferi), strain B31 5A18NP1 STM library clone T11TC016 was produced by signature-tagged mutagenesis (STM) of the BB_J29 gene. NR-59649 was produced by inoculation of the deposited material into Revised Barbour-Stoenner-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin and grown for 13 days at 33°C in a microaerophilic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70066201 **Manufacturing Date: 20MAY2024**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Spirochete	Spirochete
Motility (wet mount)	Report results	Motile
Purity	No growth observed	No growth observed
14 days at 37°C in an aerobic atmosphere with 5% CO_2 in Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)		
Visual observation	Growth	Growth
LIVE/DEAD® *Bac*Light™ Bacterial Viability	Green fluorescence visible	Green fluorescence visible[1]

[1]Determined after 14 days at 33°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin with LIVE/DEAD® *Bac*Light™ Bacterial Viability Kit, 1000× magnification (Invitrogen™ L7007). 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® *Bac*Light™ Bacterial Viability



/Sonia Bjorum Brower/
Sonia Bjorum Brower 16 SEP 2024
Technical Manager or designee, ATCC Federal Solutions

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