b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-25134

Borrelia burgdorferi, Signature-Tagged Mutagenesis Library Clone T08TC701 (Gene BB_0002)

Catalog No. NR-25134

Product Description:

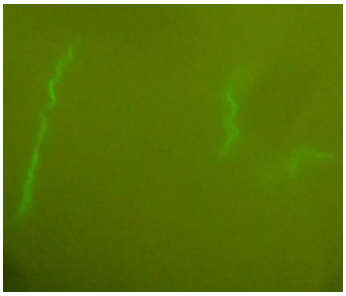
Borrelia burgdorferi (B. burgdorferi), strain B31 5A18NP1 STM library clone T08TC701 was produced by signature-tagged mutagenesis (STM) of the BB_0002 gene. NR-25134 was produced by inoculation of the deposited material into Revised Barbour-Stoenner-Kelly medium supplemented with 200 µg per mL kanamycin and 40 µg per mL gentamicin and grown for 10 days at 32°C in a microaerophilic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70045494 **Manufacturing Date: 16JUL2021**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Spirochete	Spirochete
Motility (wet mount)	Report results	Motile
Purity 11 days at 37°C in an aerobic atmosphere with 5% CO_2 in Tryptic Soy agar with 5% defibrinated sheep blood	No growth	No growth
Viability (post-freeze)		
Visual observation	Growth	Growth
LIVE/DEAD® *Bac*Light™ Bacterial Viability	Green fluorescence visible	Green fluorescence visible[1]

[1]Determined after 11 days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth supplemented with 200 µg per mL kanamycin and 40 µg per 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



/Heather Couch/
Heather Couch 28 OCT 2021
Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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