Certificate of Analysis for NR-22763

Borrelia burgdorferi, Signature-Tagged Mutagenesis Library Clone T04TC201 (Gene IR_BB_S37-BB_S38)

Catalog No. NR-22763

Product Description: *Borrelia burgdorferi (B. burgdorferi)*, strain B31 5A18NP1 STM library clone T04TC201 was produced by signature-tagged mutagenesis (STM) of the intergenic region between the BB_S37 and BB_S38 genes.

Lot[1]: 70021445 **Manufacturing Date: 25JAN2019**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology[2] Motility (wet mount)	 Spirochete Report results	 Spirochete Motile
Purity (post-freeze)[3]	No growth observed	No growth observed
Viability (post-freeze) Visual observation LIVE/DEAD® *Bac*Light™ Bacterial Viability	 Growth Green fluorescence visible	 Growth[2] Green fluorescence visible (Figure 1)[4]

[1]NR-22763 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 10 days at 32°C in a microaerophilic atmosphere to produce this lot.
[2]8 days at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin
[3]Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood.
[4]Determined with LIVE/DEAD® *Bac*Light™ Bacterial Viability Kit, 100x magnification (Invitrogen™ L7007) after a 8-day incubation at 32°C in a microaerophilic atmosphere in Revised Barbour-Stoenner-Kelly broth supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin. 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 04 MAR 2019
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.

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