b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-9321

Genomic DNA from *Burkholderia pseudomallei*, Strain 1026b

Catalog No. NR-9321

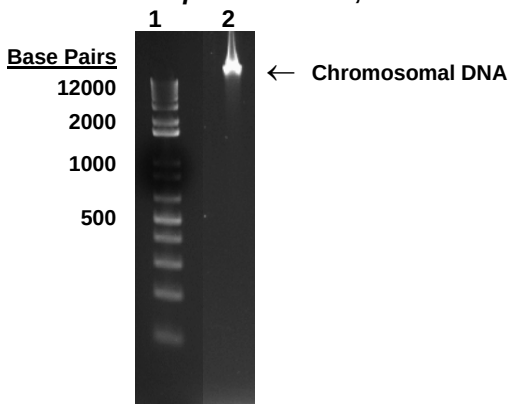
Product Description: Genomic DNA was extracted from a preparation of *Burkholderia pseudomallei (B. pseudomallei)*, strain 1026b. *B. pseudomallei*, strain 1026b was isolated in 1993 from the blood culture of a female rice farmer with diabetes mellitus at Sappasithiprasong hospital in Ubon, Ratchathani, Thailand.

Lot[1]: 63344334 **Manufacturing Date: 05MAY2015**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *B. pseudomallei,* strain 1026b (GenBank: NC_017831.1 and NC_017832.1) Consistent with *B. pseudomallei* (C at position 75)[2]	100% sequence identity to *B. pseudomallei,* strain 1026b (GenBank: NC_017831.1 and NC_017832.1) Consistent with *B. pseudomallei* (C at position 75)[2]
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.7 to 1.5 µg in 25 to 100 µL per vial	3.1 µg in 59 µL per vial (53 µg/mL)[3]
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.1	1.9
Bacterial Inactivation 10% of total yield plated on agar[4,5]	No viable bacteria detected	No viable bacteria detected

[1]The bacterial preparation used for extraction of genomic DNA was produced from a culture of NR-4074 (Lot 57954615). Genomic DNA was extracted using proprietary technology.
[2]Gee, J. E., et al. "Use of 16S rRNA Gene Sequencing for Rapid Identification and Differentiation of *Burkholderia pseudomallei* and *B. mallei*." J. Clin. Microbiol. 10 (2003): 4647-4654. PubMed: 14532197.
[3]The amount of genomic DNA in the vial exceeds the current specifications, but does not negatively impact the final product.
[4]An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.
[5]Plates were incubated for 14 days under propagation conditions.

Figure 1: Agarose Gel Electrophoresis of Genomic DNA Extracted from *Burkholderia pseudomallei*, Strain 1026b



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 400 ng of NR-9321

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Certificate of Analysis for NR-9321

Date: 01 MAR 2017 **Signature:** 

BEI Authentication or designee

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.

ATCC® is a trademark of the American Type Culture Collection.`
You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898