

Genomic DNA from *Burkholderia pseudomallei*, Strain 1026b

Catalog No. NR-9321

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Genomic DNA was isolated from a preparation of *Burkholderia pseudomallei* (*B. pseudomallei*), strain 1026b.

Burkholderia pseudomallei (*B. pseudomallei*), strain 1026b was isolated in 1993 from a blood culture of a female rice farmer with diabetes mellitus at Sappasithiprasong hospital in Ubon, Ratchathani, Thailand.¹ The patient was admitted with septicemic melioidosis with soft tissue, skin, joint and splenic involvement, and survived to discharge. *B. pseudomallei* was isolated from pus and blood samples, strains 1026a and 1026b, respectively, that were obtained 14 days after the onset of symptoms.¹

The genome sequences of chromosomes 1 and 2 of *B. pseudomallei*, strain 1026b are available (GenBank: [NC_017831.1](#) and [NC_017832.1](#)).² Genome sequences obtained from strains 1026a and 1026b are reported to be identical.¹ *B. pseudomallei*, strain 1026b contains a phage, phi1026b, which has been sequenced (GenBank: AY453853).²

NR-9321 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains 0.7 µg to 1.5 µg of bacterial genomic DNA in 10 mM Tris-HCl, pH 8 – 8.5. Each vial of lot 57960661 contains 4 µg to 6 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 7.4). The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-9320 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. For long-term storage, the product should be stored at -80°C. Freeze-thaw cycles should be minimized. Note: NR-9320 may not be provided in EDTA; for long-term storage, EDTA may be added to a final concentration of 0.1 mM to 1 mM.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Burkholderia pseudomallei*, Strain 1026b, NR-9321."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

- Hayden, H. S., et al. "Evolution of *Burkholderia pseudomallei* in Recurrent Melioidosis." *PLoS ONE* 7 (2012): e36507. PubMed: 22615773.
- DeShazer, D. "Genomic Diversity of *Burkholderia pseudomallei* Clinical Isolates: Subtractive Hybridization Reveals a *Burkholderia mallei*-Specific Prophage in *B.*

pseudomallei 1026b." J. Bacteriol. 186 (2004): 3938-3950. PubMed: 15175308.

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