

Genomic DNA from *Burkholderia thailandensis*, Strain DW503**Catalog No. NR-9322****For research use only. Not for human use.****Contributor:**

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Product Description:

Genomic DNA was isolated from a preparation of *Burkholderia thailandensis* (*B. thailandensis*), strain DW503 (BEI Resources NR-4075).

B. thailandensis, strain DW503 is an allelic exchange strain of an environmental isolate, strain E264 (the type strain for *B. thailandensis*), which was isolated from a rice field soil sample in central Thailand.¹⁻⁴ The entire genome sequence of *B. thailandensis*, strain E264 has been sequenced (GenBank: CP000085 and CP000086).⁵

NR-9322 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains approximately 4 to 6 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-9322 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at 4°C or colder immediately upon arrival. For optimal long-term storage, freezing the material at -20°C or colder is recommended. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Burkholderia thailandensis*, Strain DW503, NR-9322."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

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2. Brett, P. J., D. Deshazer and D. E. Woods. "Characterization of *Burkholderia pseudomallei* and *Burkholderia pseudomallei*-Like Strains." Epidemiol. Infect. 118 (1997): 137-148. PubMed: 9129590.
3. Ulrich, R. L., et al. "Mutational Analysis and Biochemical Characterization of the *Burkholderia thailandensis* DW503 Quorum-Sensing Network." J. Bacteriol. 186 (2004): 4350-4360. PubMed: 15205437.
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5. Kim, H. S., et al. "Bacterial Genome Adaptation to Niches: Divergence of the Potential Virulence Genes in Three *Burkholderia* Species of Different Survival Strategies." BMC Genomics. 6 (2005): 174. PubMed: 16336651. GenBank: CP000085 and CP000086.

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