Product Information Sheet for NR-8217

Genomic DNA from *Burkholderia pseudomallei*, Strain S13

Catalog No. NR-8217

For research use only. Not for human use.

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Product Description:
Genomic DNA was isolated from a preparation of *Burkholderia pseudomallei* (*B. pseudomallei*)[1], strain S13.

B. pseudomallei S13 is a mucoidal environmental strain.[2] *B. pseudomallei* (formerly *Pseudomonas pseudomallei*) are motile, aerobic, Gram-negative coccobacilli. Virulence factors that may play a role in their pathogenesis include a type III secretion system, capsular polysaccharide, lipopolysaccharide, and flagellin proteins.[3]

NR-8217 has been qualified for PCR applications by amplification of ~ 1500 bp of the 16S ribosomal RNA gene.

Material Provided:
Each vial contains approximately 4–6 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-8217 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 pseudomallei*, Strain S13, NR-8217."

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:
1. Yabuuchi, E., et al. "Proposal of *Burkholderia* gen. nov. and Transfer of Seven Species of the Genus *Pseudomonas* Homology Group II to the New Genus, with the Wild Type Species *Burkholderia cepacia* (Palleroni and Holmes 1981) comb. nov." Microbiol. Immunol. 36 (1992): 1251–1275. PubMed: 1283774.
2. http://pathema.tigr.org/tigr-scripts/Burkholderia/shared/HtmlPage.cgi?page=strains
3. Cheng, A. C. and B. J. Currie. "Melioidosis: Epidemiology, Pathophysiology, and Management." Clin. Microbiol. Rev. 18 (2005): 383–416. PubMed: 15831829.
4. Choi, K.-H., et al. "Genetic Tools for Select Agent Compliant Manipulation of *Burkholderia pseudomallei*." Appl. Environ. Microbiol. 74 (2008): 1064–1075. PubMed: 18156318.

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