

Product Information Sheet for NR-9907

Burkholderia thailandensis, Strain E264

Catalog No. NR-9907

For research use only. Not for human use.

Contributor:

Sharon J. Peacock, PhD, FRPC, FRCPath, Head of Microbiology, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

Product Description:

Bacteria Classification: Burkholderiaceae, Burkholderia Species: Burkholderia thailandensis (formerly Burkholderia pseudomallei-like or Burkholderia pseudomallei, Ara+ Biotype)1,2

Type Strain: E264

Original Source:3,4 Burkholderia thailandensis (B. thailandensis), strain E264 is an environmental isolate obtained from a rice field soil sample in central Thailand. NR-9907 was produced from material deposited with BEI Resources in 2008 by S. J. Peacock. A preparation of B. thailandensis, strain E264 produced from ATCC® 700388™ is available as BEI Resources NR-704.

Comment: The entire genome of B. thailandensis, strain E264 has been sequenced (GenBank: CP000085 and CP000086).5

B. thailandensis are saprophytic motile, aerobic, Gramnegative coccobacilli. B. thailandensis is genetically similar to both B. mallei and B. pseudomallei but lacks at least one pathogenicity island and is an avirulent species. In addition to its avirulence it can be differentiated from B. pseudomallei by some or all of the following: biochemical differences (assimilation of L-arabinose, 5-keto-gluconate, and adonitol, and no utilization of erythritol and dulcitol); differences in the 16S sequence (15 nucleotide dissimilarities); differences in lipopolysaccharide composition; and colony morphology on Ashdown's selective media. 1,2 B. thailandensis is commonly found in Southeast Asia (central Thailand in particular) and some isolates have been obtained from northern Australia.6 Typical B. thailandensis are resistant to aminoglycosides but sensitive to tetracycline, ceftazidine and trimethoprim.¹

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Nutrient Broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-9907 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival. For longterm storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

Nutrient Broth or equivalent Nutrient Agar or equivalent

Incubation:

Temperature: 30 or 37°C Atmosphere: Aerobic

Propagation:

- Keep vial frozen until ready for use; thaw slowly.
- Transfer the entire thawed aliquot into a single tube of
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tubes and plate at 30 or 37°C for 48 hours.

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Burkholderia thailandensis, Strain E264, NR-9907."

Biosafety Level: 2

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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Biodefense and Emerging Infections Research Resources Repository P.O. Box 4137

Manassas, VA 20108-4137 USA

E-mail: contact@beiresources.org

www.beiresources.org

800-359-7370

Fax: 703-365-2898



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