

Genomic DNA from *Burkholderia thailandensis*, Strain E421

Catalog No. NR-10277

Product Description: Genomic DNA was isolated from a preparation of *Burkholderia thailandensis* (*B. thailandensis*), strain E421 an environmental isolate obtained from a rice field sample in northeast Thailand.

Lot¹: 58243183

Manufacturing Date: 08JAN2009

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1390 bp)	Identical to BEI Resources NR-9909 Consistent with <i>B. thailandensis</i>	Identical to BEI Resources NR-9909 Consistent with <i>B. thailandensis</i>
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen[®] Measurement	4 to 6 µg in 25 to 100 µL per vial	5.2 µg in 38 µL per vial (138 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Nutrient Agar ^{2,3}	No viable bacteria detected	No viable bacteria detected

¹*B. thailandensis*, strain E421 was deposited by Dr. Sharon J. Peacock, PhD, FRPC, FRCPath, Head of Microbiology, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand. The bacterial preparation used for extraction of genomic DNA was produced by Nutrient Broth culture of the deposited material. After incubation for 48 hours at 30°C in an aerobic atmosphere, genomic DNA was extracted using proprietary technology.

²7 days at 30°C in an aerobic atmosphere

³An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

Date: 20 APR 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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