

Genomic DNA from *Burkholderia mallei*, Strain Ivan (NCTC 10230)

Catalog No. NR-50097

Product Description: Genomic DNA was extracted from a preparation of *Burkholderia mallei* (*B. mallei*), strain Ivan (NCTC 10230). *B. mallei*, strain Ivan was isolated from a horse sick with glanders in Hungary, 1961.

Lot¹: 63967525

Manufacturing Date: 11AUG2015

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 860 base pairs) | ≥ 99% sequence identity to <i>B. mallei</i> , type strain (GenBank: NZ_CP008704.1) Consistent with <i>B. mallei</i> (T at position 75) ² | 99.9% sequence identity to <i>B. mallei</i> , type strain (GenBank: NZ_CP008704.1) Consistent with <i>B. mallei</i> (T at position 75) ² |
| Agarose Gel Electrophoresis | High molecular weight chromosomal DNA | High molecular weight chromosomal DNA (Figure 1) |
| Concentration by PicoGreen[®] Measurement | 0.7 to 1.5 µg in 25 to 100 µL per vial | 1.0 µg in 28 µL per vial (36 µg/mL) |
| Functional Activity by PCR Amplification 16S ribosomal RNA gene | ~ 1500 base pair amplicon | ~ 1500 base pair amplicon |
| OD₂₆₀/OD₂₈₀ Ratio | 1.7 to 2.1 | 1.8 |
| Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar ³ | No viable bacteria detected | No viable bacteria detected |

¹The bacterial preparation used for extraction of genomic DNA was produced from a culture of NR-22 (Lot 4737950). Genomic DNA was extracted using proprietary technology.

²Gee, J. E., et al. "Use of 16S rRNA Gene Sequencing for Rapid Identification and Differentiation of *Burkholderia pseudomallei* and *B. mallei*." *J. Clin. Microbiol.* 10 (2003): 4647-4654. PubMed: 14532197.

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

Date: 11 JUL 2016

Signature:

BEI Authentication or designee

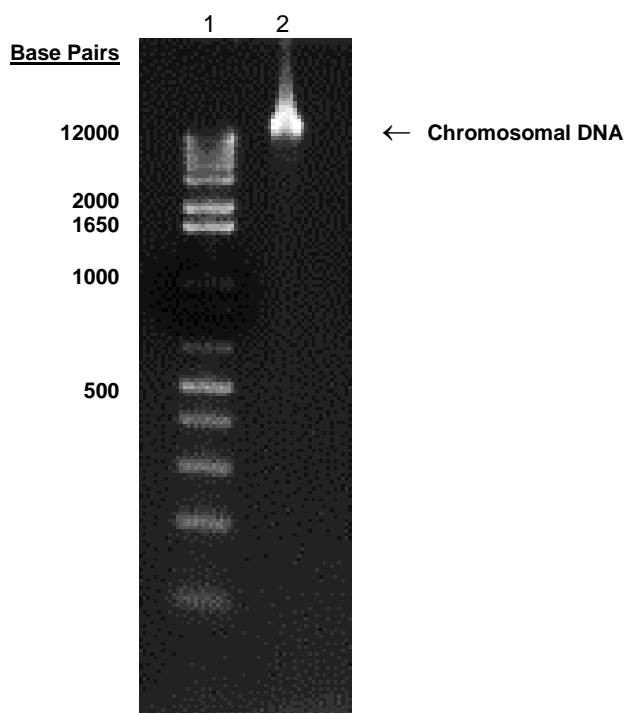
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Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™
Lane 2: 200 ng of NR-50096