

**Genomic DNA from *Burkholderia mallei*, Strain China 7 (NBL 7)**

**Catalog No. NR-50050**

**Product Description:** Genomic DNA was extracted from a preparation of *Burkholderia mallei* (*B. mallei*), strain China 7 (NBL 7).

**Lot<sup>1</sup>: 63807279**

**Manufacturing Date: 31MAR2015**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene</b> (~ 1470 base pairs)	Consistent with <i>B. mallei</i>	Consistent with <i>B. mallei</i> <sup>2,3</sup>
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen<sup>®</sup> Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	0.9 µg in 37 µL per vial (25 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	Consistent with <i>B. mallei</i>	Consistent with <i>B. mallei</i> (T at position 75) <sup>4</sup>
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.1	1.8
<b>Bacterial Inactivation</b> 10% of total yield plated on Tryptic Soy agar <sup>5,6</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>The bacterial preparation used for extraction of genomic DNA was produced by culture of NR-23 (Lot 4737953). Genomic DNA was extracted using proprietary technology.

<sup>2</sup>100% sequence identity to GenBank: [CP000010](#) and [CP000011](#) (*B. mallei*, strain China 7).

<sup>3</sup>Also consistent with *Burkholderia pseudomallei*

<sup>4</sup>Gee, 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.

<sup>5</sup>7 days at 30°C in an aerobic atmosphere

<sup>6</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

**Date:** 10 MAR 2016

**Signature:**

BEI Authentication or designee

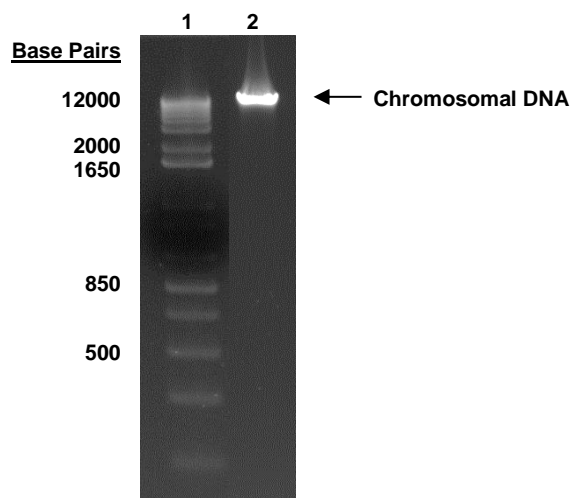
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Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™  
Lane 2: 200 ng of NR-50050