

**Genomic DNA from *Mycobacterium pinnipedii*, Strain NLA000601757**

**Catalog No. NR-49667**

**Product Description:** Genomic DNA was extracted from a preparation of *Mycobacterium pinnipedii* (*M. pinnipedii*), strain NLA000601757. *M. pinnipedii*, strain NLA000601757 was isolated in 2006 from a sea lion in a zoo.

**Lot<sup>1,2</sup>: 63954398**

**Manufacturing Date: 31MAR2016**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 830 base pairs)	≥ 99% sequence identity to <i>M. pinnipedii</i> type strain (GenBank: AF502574.1) <sup>3</sup>	99.1% sequence identity to <i>M. pinnipedii</i> type strain (GenBank: AF502574.1) <sup>3</sup>
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Concentration by PicoGreen® Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL	0.9 µg in 200 µL per vial (4.3 µg/mL) <sup>4</sup>
<b>Amount per vial</b>	0.7 to 1.5 µg	0.9 µg
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
<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 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 from the deposited material. Genomic DNA was extracted using proprietary technology.

<sup>2</sup>NR-49667, Lot 63954398, was vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.0).

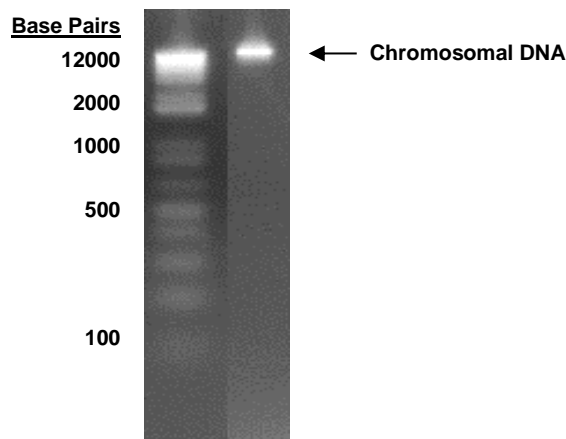
<sup>3</sup>Also consistent with other *Mycobacterium* species

<sup>4</sup>The volume of genomic DNA in the vial exceeds the current specifications, but does not negatively impact the final product.

<sup>5</sup>30 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Middlebrook 7H10 agar with OADC enrichment.

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

**Figure 1: Agarose Gel Electrophoresis**



Lane 1: Invitrogen™ TrackIt 1 Kb Plus DNA Ladder™

Lane 2: ~ 40 ng of NR-49667

**Date:** 27 JUN 2017

**Signature:**



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