

Genomic DNA from *Mycobacterium canettii*, Strain NLA000017121

Catalog No. NR-49659

Product Description: Genomic DNA was extracted from a preparation of *Mycobacterium canettii* (*M. canettii*), strain NLA000017121.

Lot^{1,2}: 63954392

Manufacturing Date: 07APR2016

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 870 base pairs)	≥ 99% sequence identity to <i>M. canettii</i> , strain CIPT 140070007 (GenBank: CA0001000151.1)	100% sequence identity to <i>M. canettii</i> , strain CIPT 140070007 (GenBank: CA0001000151.1) ³
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	0.9 µg in 46 µL per vial (21 µg/mL)
Amount per vial	0.7 to 1.5 µg	0.9 µg
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 agar ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced from the deposited material. Genomic DNA was extracted using proprietary technology.

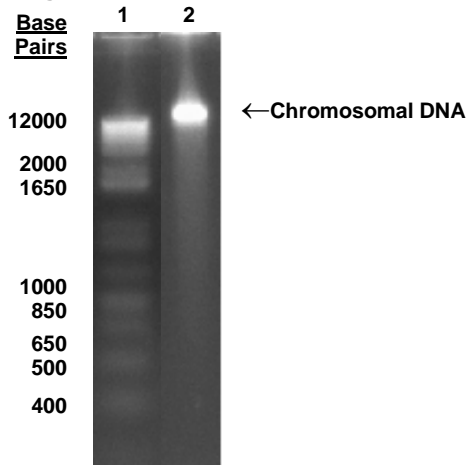
²NR-49659 lot 63954392 was vialied in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.0).

³Also consistent with *M. africanum*, *M. bovis*, *M. caprae*, *M. microti* and *M. tuberculosis*

⁴30 days at 37°C in an aerobic atmosphere with 5% CO₂ on Middlebrook 7H10 agar with OADC enrichment

⁵An 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: ~ 180 ng of NR-49659

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