Certificate of Analysis for NR-49661

Genomic DNA from *Mycobacterium caprae*, Strain NLA000201913

Catalog No. NR-49661

Product Description:

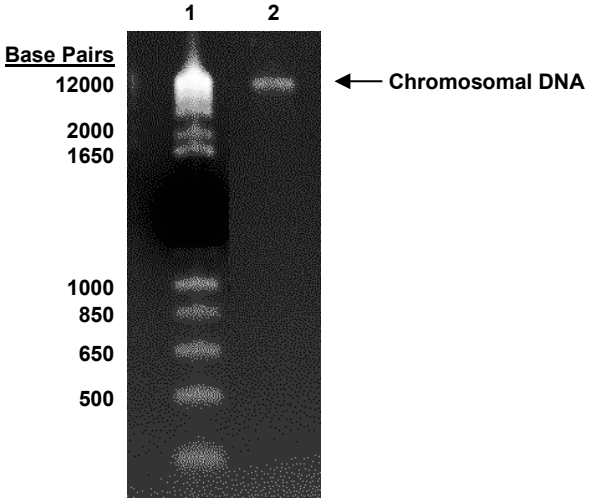
Genomic DNA was extracted from a preparation of *Mycobacterium caprae (M. caprae)*, strain NLA000201913. *M. caprae*, strain NLA000201913 was isolated in 2002 from human sputum in the Netherlands.

Lot: 63954394[1,2] **Manufacturing Date: 31MAR2016**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 810 base pairs)	≥ 99% sequence identity to *M. caprae* type strain (GenBank: AJ131120.1)	100% sequence identity to *M. caprae* type strain (GenBank: AJ131120.1)[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 per vial	0.3 µg in 93 µL per vial (3.2 µg/mL)
Amount per vial	0.7 to 1.5 µg	0.3 µg[4]
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 base pair amplicon	~ 1500 base pair amplicon
OD_{260}/OD_{280} Ratio	1.7 to 2.1	2.1
Bacterial Inactivation 10% of total yield plated on agar[5,6]	No viable bacteria detected	No viable bacteria detected

[1]The bacterial preparation used for extraction of genomic DNA was produced from the deposited material. Genomic DNA was extracted using proprietary technology.
[2]NR-49661 lot 63954394 was vialed in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.0).
[3]Also consistent with other *M. africanum*, *M. bovis*, *M. caprae and M. tuberculosis*
[4]The amount of genomic DNA per vial falls below the current specification, but does not negatively impact the final product.
[5]30 days at 37°C in an aerobic atmosphere with 5% CO_2 on Middlebrook 7H10 agar with OADC enrichment
[6]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: ~ 43 ng of NR-49661

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

Certificate of Analysis for NR-49661

/Heather Couch/
Heather Couch 11 JUL 2019
Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898