SUPPORTING INFECTIOUS DISEASE RESEARCH

Genomic DNA from Mycobacterium africanum, Strain NLA000017458

Catalog No. NR-49653

Product Description: Genomic DNA was extracted from a preparation of *Mycobacterium africanum* (*M. africanum*), strain NLA000017458. *M. africanum*, strain NLA000017458 was isolated in May 1993 from the sputum of a human patient and was deposited to BEI Resources as an *M. africanum* West African type I strain.

Lot^{1,2}: 63954389

Manufacturing Date: 11APR2016

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1360 base pairs)	≥ 99% sequence identity to <i>M. africanum</i> type strain (GenBank: AF480605.1)	99.9% sequence identity to <i>M. africanum</i> type strain (GenBank: AF480605.1) 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	0.3 μg in 33 μL per vial (8.3 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	1.8
Bacterial Inactivation 10% of total yield plated on agar ^{5,6}	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-49653 lot 63954389 was vialed in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH ~ 8.0).

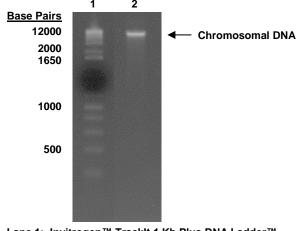
³Also consistent with other *Mycobacterium* species

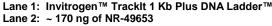
⁴The amount of genomic DNA per vial falls below the current specification, but does not negatively impact the final product.

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

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

Figure 1: Agarose Gel Electrophoresis





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Certificate of Analysis for NR-49653

18 APR 2018

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.

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