

Genomic DNA from *Mycobacterium tuberculosis*, Strain H37Rv

Catalog No. NR-48669

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Product Description: Genomic DNA was obtained from a preparation of *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv. The H37Rv strain was derived from the virulent parent strain H37. *M. tuberculosis*, strain H37 was isolated in 1905 from the sputum of a patient with chronic pulmonary tuberculosis.

Lot¹: 64293370

Manufacturing Date: 04MAY2016

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of heat shock protein (HSP) 65 gene (~ 420 base pairs) Sequencing of 16S ribosomal RNA gene (~830 base pairs)	Consistent with <i>M. tuberculosis</i> ≥ 99% sequence identity to <i>M. tuberculosis</i> type strain (GenBank: AL123456)	Consistent with <i>M. tuberculosis</i> ^{2,3} 100% sequence identity to <i>M. tuberculosis</i> type strain (GenBank: AL123456) 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	0.8 µg in 45.5 µL per vial (1.8 µg/mL)
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	1.9
Bacterial Inactivation 10% of total yield plated on Middlebrook 7H10 agar with OADC ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹The bacterial preparation used for extraction of genomic DNA was produced by culture of BEI Resources NR-13648 lot: 59031923. Genomic DNA was extracted using proprietary technology.

²Sequencing was performed on the source organism, BEI Resources NR-13648 lot: 59031923.

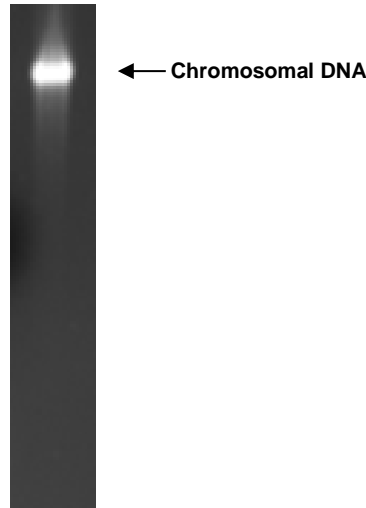
³Also consistent with *M. africanum*, *M. bovis*, *M. canetti*, *M. caprae* and *M. microti*

⁴30 days at 37°C in an aerobic atmosphere with 5% CO₂

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

Certificate of Analysis for NR-48669

Figure 1: 1.2% Agarose Gel Loaded with Approximately 180 ng of NR-48669



Date: 02 DEC 2016

Signature:



BEI Resources Authentication

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