

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: 62705700

Manufacturing Date: 04DEC2014

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of heat shock protein (HSP) 65 gene (~ 440 base pairs)	Consistent with <i>M. tuberculosis</i>	Consistent with <i>M. tuberculosis</i> ²
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	1.04 µg in 54 µL per vial (19.2 µg/mL)
Functional Activity by PCR Amplification HSP65 gene	~ 500 base pair amplicon	~ 500 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.8
Bacterial Inactivation 10% of total yield plated on Middlebrook 7H10 agar with OADC ^{3,4}	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.

²Also consistent with other *Mycobacterium* species

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

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative and Gram-positive bacteria.

Figure 1: 1.2% Agarose Gel Loaded with Approximately 190 ng of NR-48669



Date: 17 MAR 2015

Signature:

Title: Technical Manager, BEI Authentication or designee

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