

## Certificate of Analysis for NR-20792

## Mycobacterium tuberculosis, Strain HN1744

## Catalog No. NR-20792

**Product Description:** *Mycobacterium tuberculosis* (*M. tuberculosis*), strain HN1744 was isolated in 1998 from human pulmonary tissue in Texas, USA. Strain HN1744 was deposited as a non-drugresistant strain.

Lot<sup>1</sup>: 64120074 Manufacturing Date: 08APR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis <sup>2</sup>		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology <sup>3</sup>	Report results	Irregular, raised, entire, rough and cream (Figure 1)
Growth rate	≥ 7 days	21 days
Growth at 26°C	Negative	Negative
Growth at 37°C	Positive	Positive
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
Pigmentation in the dark (Scotochromogen)	Negative (no pigment)	Negative (no pigment)
Photoinduction for 1 hour (Photochromogen)	Negative (no pigment)	Negative (no pigment)
Nonchromogen (no pigment) Biochemical tests	Positive (no pigment)	Positive (no pigment)
Niacin production <sup>4</sup>	Positive	Positive
Nitrate reduction	Positive	Positive
Pyrazinamidase	Positive	Positive
Genotypic Analysis Sequencing of Heat Shock Protein 65 gene (~440 base pairs)	≥ 99% sequence identity to <i>M. tuberculosis</i> type strain (GenBank: AL123456)	100% sequence identity to  M. tuberculosis type strain (GenBank: AL123456) <sup>5</sup>
Purity (post-freeze) <sup>6</sup>	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) <sup>3</sup>	Growth	Growth

<sup>&</sup>lt;sup>1</sup>NR-20792 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 29 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot.

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<sup>&</sup>lt;sup>3</sup>30 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> on Middlebrook 7H10 agar with OADC enrichment

<sup>&</sup>lt;sup>4</sup>All mycobacteria produce niacin but only M. tuberculosis accumulates it, resulting in a positive test for M. tuberculosis.

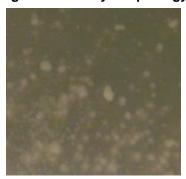
<sup>&</sup>lt;sup>5</sup>Also consistent with *M. africanum*, *M. bovis* and *M. microti* 

<sup>&</sup>lt;sup>6</sup>Purity of this lot was assessed for 30 days at 37°C in an aerobic atmosphere with 5% CO₂ on Middlebrook 7H10 agar with OADC enrichment and 21 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar plates.



## **Certificate of Analysis for NR-20792**

Figure 1: Colony Morphology



**Date:** 28 DEC 2016

Signature:

**BEI Resources Authentication** 

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