

Certificate of Analysis for NR-20803

Mycobacterium tuberculosis, Strain HN1587

Catalog No. NR-20803

Product Description: *Mycobacterium tuberculosis* (*M. tuberculosis*), strain HN1587 was isolated in 1998 from human pulmonary tissue in Texas, USA. Strain HN1587 was deposited as a non-drug-resistant strain.

Lot¹: 64120102 Manufacturing Date: 12APR2016

TEST	SPECIFICATIONS	RESULTS
1-41	SPECIFICATIONS	KESOETS
Phenotypic Analysis ²		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology ³	Report results	Irregular, slight peaked, undulate, rough and cream (Figure 1)
Growth rate	≥ 7 days	23 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)	Positive (no pigment)	Positive (no pigment)
Biochemical tests		
Niacin production⁴	Positive	Positive
Nitrate reduction	Positive	Positive
Pyrazinamidase	Positive	Positive
Genotypic Analysis		
Sequencing of Heat Shock Protein 65 gene (~ 350 base pairs)	≥ 99% sequence identity to <i>M. tuberculosis</i> type strain (GenBank: AL123456)	100% sequence identity to M. tuberculosis type strain (GenBank: AL123456)⁵
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment ⁶	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Tryptic Soy agar ⁷	Report results	Growth consistent with expected colony morphology
Viability (post-freeze) ³	Growth	Growth

¹NR-20803 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 32 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

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

⁴All mycobacteria produce niacin but only *M. tuberculosis* accumulates it, resulting in a positive test for *M. tuberculosis*.

⁵Also consistent with M. africanum, M. bovis, M. canettii and M. microti.

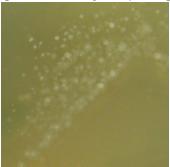
⁶Purity of this lot was assessed for 49 days at 37°C in an aerobic atmosphere with 5% CO₂.

⁷Purity of this lot was assessed for 23 days at 37°C in an aerobic atmosphere with 5% CO₂.



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Figure 1: Colony Morphology



Date: 12 JAN 2017

Signature:

BEI Resources Authentication

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