

## Certificate of Analysis for NR-30774

## Mycobacterium tuberculosis, Strain 97-2394

## Catalog No. NR-30774

This reagent is the tangible property of the U.S. Government.

**Product Description:** *Mycobacterium tuberculosis (M. tuberculosis)*, strain 97-2394 was isolated between 1995 and 2000 from human sputum from an HIV-negative patient infected with pulmonary tuberculosis in North America.

Lot<sup>1</sup>: 64496445 Manufacturing Date: 17FEB2017

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SPECIFICATIONS	RESULTS
Gram-positive rods	Gram-positive rods
Report results	Irregular, slight peaked, undulate, rough and cream (Figure 1)
≥ 7 days	20 days
Negative	Negative
Positive	Positive
Positive (red colonies)	Positive (red colonies)
Negative (no pigment)	Negative (no pigment)
Negative (no pigment)	Negative (no pigment)
Positive (no pigment)	Positive (no pigment)
Positive	Positive
Positive	Positive
Positive	Positive
≥ 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>
Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Report results	No growth
Growth	Growth
	≥ 7 days Negative Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment)  Positive Positive Positive  ≥ 99% sequence identity to M. tuberculosis type strain (GenBank: AL123456)  Growth consistent with expected colony morphology Report results

<sup>&</sup>lt;sup>1</sup>NR-30774 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 66 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>2</sup>Information on Mycobacterium testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." <u>Biochemical Testing.</u> (2012) Jose C. Jimenez-Lopez (Ed.), InTech, <a href="http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria">http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria</a> and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria} and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria">https://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria</a> and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <a href="https://www.intechopen.com/books/biochemical-testing

<sup>&</sup>lt;sup>3</sup>20 days at 37°C in an aerobic atmosphere with 5% CO₂ 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, M. canettii, M. caprae* and *M. microti* 

<sup>&</sup>lt;sup>6</sup>Purity of this lot was assessed for 31 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>.



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Figure 1: Colony Morphology



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Program Manager or designee, ATCC Federal Solutions

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