

Certificate of Analysis for NR-30772

Mycobacterium tuberculosis, Strain 97-2384

Catalog No. NR-30772

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

Product Description: Mycobacterium tuberculosis (M. tuberculosis), strain 97-2384 was isolated between 1995 and 2000 from human sputum from an HIV-negative patient infected with pulmonary tuberculosis in North America.

Lot¹: 64496441 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)	99.8% sequence identity to M. tuberculosis type strain (GenBank: AL123456) ⁵
Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Report results	No growth
Growth	Growth
	Gram-positive rods Report results ≥ 7 days Negative Positive Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment) Positive Positive Positive Positive ≥ 99% sequence identity to M. tuberculosis type strain (GenBank: AL123456) Growth consistent with expected colony morphology Report results

¹NR-30772 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% CO₂ to produce

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²Information 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, http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-ofmycobacteria and Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus Mycobacterium and for Description of New Slowly Growing Mycobacterium Species." Int. J. Syst. Bacteriol. 42 (1992): 315-323. PubMed: 1581193.

 $^{^3}$ 20 days at 37 $^\circ$ C in an aerobic atmosphere with 5 $^\circ$ CO $_2$ 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, M. caprae* and *M. microti*

⁶Purity of this lot was assessed for 31 days at 37°C in an aerobic atmosphere with 5% CO₂.



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Figure 1: Colony Morphology



30 MAR 2018

Program Manager or designee, ATCC Federal Solutions

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