

Certificate of Analysis for NR-30603

Mycobacterium tuberculosis, Strain 95-2453

Catalog No. NR-30603

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

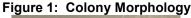
Product Description: *Mycobacterium tuberculosis* (*M. tuberculosis*), strain 95-2453 was isolated between 1995 and 2000 from human sputum from an HIV-negative patient infected with pulmonary tuberculosis in North America. Strain 95-2453 was deposited as a multi-drug sensitive (MDS) strain of tuberculosis with sensitivity to rifampicin and isoniazid.

Lot¹: 61255109 Manufacturing Date: 20NOV2012

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis ² Colony morphology ³ Growth rate	Report results ≥ 7 days	Circular, peaked, rough and white (Figure 1) 44 days
Genotypic Analysis Sequencing of Heat Shock Protein 65 gene (~ 420 base pairs)	≥ 99% sequence identity to M. tuberculosis type strain (GenBank: AL123456)	100% sequence identity to <i>M. tuberculosis</i> type strain (GenBank: AL123456) ⁴
Purity (post-freeze) ^{5,6}	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) ³	Growth	Growth

¹NR-30603 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment and grown for 16 days at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 20 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

⁶Middlebrook 7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms.





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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-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." <u>Int. J. Syst. Bacteriol.</u> 42 (1992): 315-323. PubMed: 1581193.

³⁴⁴ days at 37°C in an aerobic atmosphere with 5% CO2 on Middlebrook 7H10 agar with OADC enrichment

⁴Also consistent with M. africanum, M. bovis and M. microti

⁵Purity of this lot was assessed for 44 days at 37°C in an aerobic atmosphere with 5% CO₂ on Middlebrook 7H10 agar.



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Date: 27 OCT 2016 Signature:

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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