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.

Lot[1]: 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 *M. tuberculosis* 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

[1]NR-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% CO_2. 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% CO_2 to produce this lot.
[2]Information on Mycobacterium testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." Biochemical Testing. (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." Int. J. Syst. Bacteriol. 42 (1992): 315-323. PubMed: 1581193.
[3]44 days at 37°C in an aerobic atmosphere with 5% CO_2 on Middlebrook 7H10 agar with OADC enrichment
[4]Also consistent with *M. africanum*, *M. bovis* and *M. microti*
[5]Purity of this lot was assessed for 44 days at 37°C in an aerobic atmosphere with 5% CO_2 on Middlebrook 7H10 agar.
[6]Middlebrook 7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms.

Figure 1: Colony Morphology

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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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