

Certificate of Analysis for NR-44273

Mycobacterium abscessus, Strain 4529

Catalog No. NR-44273

Product Description:

Mycobacterium abscessus (M. abscessus), strain 4529 was isolated from an unknown source at the University of Texas Health Science Center at Tyler, Tyler, Texas, USA. NR-44273 was produced by inoculation of BEI Resources seed lot 62009746 into Middlebrook 7H9 broth with ADC enrichment and grown for 6 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 6 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70039253 Manufacturing Date: 12OCT2020

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis ¹		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology	Report results	Circular, convex, undulate, smooth, opaque and cream (Figure 1)
Motility (wet mount)	Non-motile	Non-motile
Growth rate	≤ 7 days	7 days
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
VITEK® MS (MALDI-TOF)	M. abscessus	M. abscessus (99.9%)
Phenotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1400 base pairs) Sequencing of Heat Shock Protein 65 gene (~ 420 base pairs)	≥ 99% sequence identity to M. abscessus type strain (GenBank: AP018436.1) ≥ 99% sequence identity to M. abscessus type strain (GenBank: AP018436.1)	99.9% sequence identity to M. abscessus type strain (GenBank: AP018436.1) ² 99.3% sequence identity to M. abscessus type strain (GenBank: AP018436.1)
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment 9 days at 37°C in an aerobic atmosphere with 5% CO ₂	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology ³
Tryptic Soy agar 9 days at 37°C in an aerobic atmosphere with 5% CO ₂	Report results	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

¹Information on *Mycobacterium* testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria, Biochemical Testing."
<u>Biochemical Testing.</u> (2012) Jose C. Jimenez-Lopez (Ed.), InTech, Available from: <u>Biochemical Isolation and Identification of Mycobacteria.</u>
²Also consistent with *M. abscessus* subsp. *abscessus*, *M. abscessus* subsp. *bolletii*, *M. abscessus* subsp. *massiliense* and *M. chelonae*

³M7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms.

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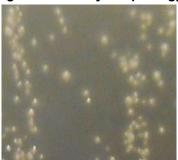
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Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

19 DEC 2023

Technical Manager or designee, ATCC Federal Solutions

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