SUPPORTING INFECTIOUS DISEASE RESEARCH

Mycobacterium abscessus, Strain MC1518

Catalog No. NR-44266

Product Description:

Mycobacterium abscessus (M. abscessus), strain MC1518 was isolated between 2009 and 2013 from a human leg abscess in the USA. NR-44266 was produced by inoculation of BEI Resources seed lot 62009738 into Middlebrook 7H9 broth with ADC enrichment and grown for 4 days at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Middlebrook 7H10 (M7H10) agar with OADC enrichment kolles, which were grown for 3 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Lot: 70033319

Manufacturing Date: 21FEB2020

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis ¹		
Cellular morphology ²	Gram-positive rods	Gram-positive rods
Colony morphology ² 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ on M7H10 agar with OADC enrichment	Report results	Circular, low convex, entire, smooth and cream (Figure 1)
Motility BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Non-motile	Motile ³
Growth rate	≤ 7 days	4 days
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
VITEK [®] MS (MALDI-TOF)	M. abscessus	M. abscessus (99.9%)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1360 base pairs) Sequencing of Heat Shock Protein 65 gene (~ 430 base pairs)	 ≥ 99% sequence identity to <i>M. abscessus</i> type strain (GenBank: CU458896.1) ≥ 99% sequence identity to <i>M. abscessus</i> type strain (GenBank: CU458896.1) 	 99.9% sequence identity to <i>M. abscessus</i> type strain (GenBank: CU458896.1)⁴ 100% sequence identity to <i>M. abscessus</i> type strain (GenBank: CU458896.1)
 Purity (post-freeze) M7H10 agar with OADC enrichment² 7 days at 37°C in an aerobic atmosphere with 5% CO₂ Tryptic Soy agar 7 days at 37°C in an aerobic atmosphere with 5% CO₂ 	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
Viability (post-freeze) ² 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ on M7H10 agar with OADC enrichment	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>http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria</u>.

²M7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms

³Mycobacteria may exhibit sliding motility (Martínez, A., S. Torello and R. Kolter. "Sliding Motility in Mycobacteria." <u>J. Bacteriol.</u> 181 (1999): 7331-7338. PubMed: 10572138.).

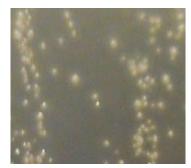
⁴Also consistent with *M. abscessus* subsp. *abscessus*, *M. abscessus* subsp. *bolletii*, *M. abscessus* subsp. *massiliense* and *M. chelonae*

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Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

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Technical Manager or designee, ATCC Federal Solutions

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