

***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

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis¹ Cellular morphology ² Colony morphology ² 4 days at 37°C in an aerobic atmosphere with 5% CO ₂ on M7H10 agar with OADC enrichment Motility BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere Growth rate Acid-fast stain VITEK® MS (MALDI-TOF)	Gram-positive rods Report results Non-motile ≤ 7 days Positive (red colonies) <i>M. abscessus</i>	Gram-positive rods Circular, low convex, entire, smooth and cream (Figure 1) Motile ³ 4 days Positive (red colonies) <i>M. abscessus</i> (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 enrichment ² 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ Tryptic Soy agar 7 days at 37°C in an aerobic atmosphere with 5% CO ₂	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." *Biochemical Testing*. (2012) Jose C. Jimenez-Lopez (Ed.), InTech, Available from: <http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria>.

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." *J. Bacteriol.* 181 (1999): 7331-7338. PubMed: 10572138.).

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

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

28 JUN 2023

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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

