

***Mycobacterium abscessus*, Strain 103**

Catalog No. NR-44261

Product Description:

Mycobacterium abscessus (*M. abscessus*), strain 103 was isolated between 2009 and 2013 from human sputum in Denver, Colorado, USA. NR-44261 was produced by inoculation of BEI Resources seed lot 62009733 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 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70058039

Manufacturing Date: 27JAN2023

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| TEST | SPECIFICATIONS | RESULTS |
|---|--|--|
| Phenotypic Analysis¹ Cellular morphology Colony morphology Motility (wet mount) 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 Irregular, low convex, undulate, rough and white (Figure 1) Non-motile 3 days Positive (red colonies) <i>M. abscessus</i> (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 <i>M. abscessus</i> , strain 103 (GenBank: JAOK01000012.1) ≥ 99% sequence identity to <i>M. abscessus</i> , strain 103 (GenBank: JAOK01000012.1) | 99.9% sequence identity to <i>M. abscessus</i> , strain 103 (GenBank: JAOK01000012.1) ² 100% sequence identity to <i>M. abscessus</i> , strain 103 (GenBank: JAOK01000012.1) |
| Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment 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 ³ 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." *Biochemical Testing*. (2012) Jose C. Jimenez-Lopez (Ed.), InTech, Available from: [Biochemical Isolation and Identification of Mycobacteria](#).

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.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
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27 MAR 2024

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