

***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% CO<sub>2</sub>. 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% CO<sub>2</sub> 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
<b>Phenotypic Analysis<sup>1</sup></b> 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 Circular, convex, undulate, smooth, opaque and cream (Figure 1)  Non-motile 7 days Positive (red colonies) <i>M. abscessus</i> (99.9%)
<b>Phenotypic Analysis</b> 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> type strain (GenBank: AP018436.1) ≥ 99% sequence identity to <i>M. abscessus</i> type strain (GenBank: AP018436.1)	99.9% sequence identity to <i>M. abscessus</i> type strain (GenBank: AP018436.1) <sup>2</sup> 99.3% sequence identity to <i>M. abscessus</i> type strain (GenBank: AP018436.1)
<b>Purity (post-freeze)</b> Middlebrook 7H10 agar with OADC enrichment 9 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> Tryptic Soy agar 9 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub>	Growth consistent with expected colony morphology  Report results	Growth consistent with expected colony morphology <sup>3</sup>  Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Information 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](#).

<sup>2</sup>Also consistent with *M. abscessus* subsp. *abscessus*, *M. abscessus* subsp. *bolletii*, *M. abscessus* subsp. *massiliense* and *M. chelonae*

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

Figure 1: Colony Morphology



/Sonia Bjorum Brower/  
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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