

Mycobacterium abscessus, Strain Clinical Isolate ID 36
Catalog No. NR-59673
Product Description:

Mycobacterium abscessus (*M. abscessus*), strain Clinical Isolate ID 36 was isolated in April 2018 from the induced sputum from a human in Boston, Massachusetts, USA, following the treatment involving different therapeutics that may have resulted in resistance mutations. NR-59673 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment and grown for 3 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70071580
Manufacturing Date: 10OCT2024

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis 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 <i>M. abscessus</i>	Gram-positive rods Circular, slight peaked, entire, opaque and cream Non-motile 3 days Positive <i>M. abscessus</i> (99.9%)
Antibiotic Susceptibility Profile¹ Sensititre™ System ² Amikacin Clarithromycin Clofazimine Doxycycline Linezolid Tigecycline Etest® antibiotic test strips 3 to 4 days at 37°C in an aerobic atmosphere on Mueller Hinton agar Cefoxitin Ciprofloxacin Imipenem Meropenem Moxifloxacin Tobramycin Trimethoprim/sulfamethoxazole	Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results Report results	Sensitive (8 µg/mL) Sensitive (0.12 µg/mL) 0.12 µg/mL ³ Resistant (> 8 µg/mL) Sensitive (2 µg/mL) 0.12 µg/mL ³ Resistant (≥ 64 µg/mL) Sensitive (0.75 to 1 µg/mL) Resistant (> 32 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (1.5 µg/mL) Resistant (8 µg/mL) Resistant (≥ 32 µg/mL)
Genotypic Analysis Digital DNA-DNA hybridization (dDDH) ^{4,5}	≥ 70% for species identification	<i>M. abscessus</i> subsp. massiliense (95.9%) <i>M. abscessus</i> (77.5%) <i>M. abscessus</i> subsp. bolletii (75.2%)

Certificate of Analysis for NR-59673

TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze) M7H10 agar with OADC enrichment ⁶ 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)	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M24S-ED2:2023

²Sensititre™ System Rapid Growing Mycobacteria MIC Plate, Thermo Scientific™ RAPMYCO2

³MIC interpretive standards for this antibiotic with *M. abscessus* are not available.

⁴The whole genome of *M. abscessus*, Clinical Isolate ID 36 (~ 4.9 megabase pairs) was sequenced using the Illumina® MiSeq® system and was assembled and analyzed using Kraken version 2.1.3 and Unicycler v0.5.0.

⁵Relatedness between bacterial strains has traditionally been determined using DDH. For additional information refer to Auch, A.F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." *Stand. Genomic Sci.* 2 (2010): 117-134. PubMed: 21304684.

⁶M7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms

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