**Mycobacterium abscessus**, Strain MC1518

**Catalog No. NR-44266**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**
*Bacteria Classification:* Mycobacteriaceae, Mycobacterium

*Species:* Mycobacterium abscessus

*Strain:* MC1518 (also referred to as strain 1518)

*Original Source:* Mycobacterium abscessus (M. abscessus), strain MC1518 was isolated between 2009 and 2013 from a human leg abscess in the United States and deposited to BEI Resources as *Mycobacterium chelonae*. Whole genome sequencing performed at ATCC® identified strain MC1518 as *M. abscessus* subspecies bolletii.

*Comment:* *M. abscessus*, strain MC1518 is part of the Top Priority Nontuberculosis Mycobacteria Whole Genome Sequencing Project at the Genomic Sequencing Center for Infectious Diseases (GSCID) at University of Maryland School of Medicine. The complete genome of *M. abscessus*, strain MC1518 is available (GenBank: CP009613).

*M. abscessus* is an acid-fast, Gram-positive, non-motile, non-pigmenting, rod-shaped, rapidly growing nontuberculous mycobacterium. It is highly resistant to a number of antimicrobials, as well as commonly used disinfectants, particularly chlorine. *M. abscessus* is associated with chronic pneumonia in patients with chronic lung disease and with soft-tissue and post-surgical infections in both community and healthcare settings. This organism has been isolated from human, animal and environmental sources, including soil, bioaerosols and water. *M. abscessus* is subspecies into *M. abscessus* subsp. *abscessus*, *M. abscessus* subsp. bolletii and *M. abscessus* subsp. *massiliense* based on the functionality of an inducible erythromycin methylase (*erm*) gene, with *M. abscessus* subsp. *massiliense* lacking a functional *erm*.5,6

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Middlebrook 7H9 broth with ADC Enrichment supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-44266 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Media:**
- Middlebrook 7H9 broth with Middlebrook ADC Enrichment or equivalent
- Middlebrook 7H10 agar with Middlebrook OADC Enrichment or equivalent

**Incubation:**
- Temperature: 37°C
- Atmosphere: Aerobic with 5% CO₂

**Propagation:**
1. Keep vial frozen until ready for use; then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 1 to 6 weeks.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium abscessus*, Strain MC1518, NR-44266.”

**Biosafety Level:**
2


This publication recommends that practices with this agent include the use of respiratory protection and the implementation of specific procedures and use of specialized equipment to prevent and contain aerosols.

**Disclaimers:**
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References:

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