**Product Information Sheet for NR-44273**

**Mycobacterium abscessus, Strain 4529**

**Catalog No. NR-44273**

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* (originally deposited as *Mycobacterium xenopi* and updated to *abscessus* following whole genome sequence analysis)

Strain: 4529

Original Source: *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.

Comments: The whole genome sequence for *M. abscessus*, strain 4529 is available (GenBank: CP009616).

*M. abscessus* is an acid-fast, Gram-positive, non-motile, non-pigmenting, rod-shaped, rapidly growing nontuberculous mycobacterium.\(^1\) It is highly resistant to a number of antimicrobials, as well as commonly used disinfectants, particularly chlorine.\(^2\)\(^3\) *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.\(^4\) *M. abscessus* is subspecialized 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-44273 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 ADC enrichment or equivalent
Middlebrook 7H10 agar with OADC enrichment or Lowenstein-Jensen agar or equivalent

**Incubation:**
Temperature: 37°C
Atmosphere: Aerobic with 5% CO\(_2\)

**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 3 to 7 days.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Mycobacterium abscessus, Strain 4529, NR-44273.”

**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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