

Mycobacterium conspicuum, Strain FI-95138

Catalog No. NR-49069

For research use only. Not for human use.

Contributor:

Dr. Enrico Tortoli, Senior Scientist, Emerging Bacterial Pathogens Unit, San Raffaele Scientific Hospital, Milan, Italy

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Mycobacteriaceae*, *Mycobacterium*

Species: *Mycobacterium conspicuum*

Strain: FI-95138

Original Source: *Mycobacterium conspicuum* (*M. conspicuum*), strain FI-95138 was isolated from sputum.¹

Comments: The complete genome of *M. conspicuum*, strain FI-95138 is currently being sequenced by BEI Resources.

M. conspicuum is an acid-fast, nonphotochromogenic, slow-growing nontuberculosis mycobacteria that does not form spores, capsules or aerial hyphae.² *M. conspicuum* is characterized by a unique occurrence of two branched fatty acids (C_{15.0} and C_{17.0}) and a distinct high-performance liquid chromatography (HPLC) profile, and is differentiated from other slow growing mycobacteria by analysis of the mycobacteria-specific hypervariable region of the 16S rRNA sequence and by a unique internal transcribed spacer (ITS) 1 sequence.^{2,3,4} *M. conspicuum* has been isolated from blood, sputum and skin biopsy specimens from immunocompromised patients with disseminated infections and has been associated with pulmonary diseases.^{2,3}

Material Provided:

Each vial contains approximately 0.7 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-49069 was packaged aseptically in screw-capped plastic 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 Lowenstein-Jensen agar or equivalent

Incubation:

Temperature: 31°C or 37°C

Note: *M. conspicuum* is usually cultured at 31°C, however, this strain demonstrates growth at 37°C.²

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 tubes and plate at 37°C for 2 to 6 weeks.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium conspicuum*, Strain FI-95138, NR-49069."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals

contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Tortoli, E., Personal Communication.
2. Springer, B., et al. "*Mycobacterium conspicuum* sp. nov., a new Species Isolated from Patients with Disseminated Infections." J. Clin. Microbiol. 33 (1995): 2805-2811. PubMed: 8576323.
3. van Ingen, J., et al. "Clinical *Mycobacterium conspicuum* Isolation from Two Immunocompetent Patients in the Netherlands." J. Clin. Microbiol. 45 (2007): 4075-4076. PubMed: 17942664.
4. Roth, A., et al. "Differentiation of Phylogenetically Related Slowly Growing Mycobacteria based on 16S-23S rRNA Gene Internal Transcribed Spacer Sequences." J. Clin. Microbiol. 36 (1998): 139-147. PubMed: 9431937.

ATCC® is a trademark of the American Type Culture Collection.

