

***Mycobacterium conspicuum*, Strain FI-95138**

Catalog No. NR-49069

For research use only. Not for human use.

Contributor:

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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.²⁻⁴ *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°C², however, this strain demonstrates growth at 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 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/bmb15/index.htm.

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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.

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