Product Information Sheet for NR-49081

Mycobacterium europaeum, Strain FI-95228T

Catalog No. NR-49081

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Mycobacteriaceae*, *Mycobacterium*
Species: *Mycobacterium europaeum*
Strain: FI-95228T (also referred to as DSM 45397T and CCUG 58464T)[1]
Original Source: *Mycobacterium europaeum (M. europaeum)*, strain FI-95228T was isolated in 1995 from the sputum of an 81-year-old male patient with cavitary pneumopathy in Florence, Italy.[1]
Comments: *M. europaeum*, strain FI-95228T was deposited as the type strain for the species.[1] The complete genome of *M. europaeum*, strain FI-95228T is currently being sequenced by BEI Resources.

M. europaeum is an acid-fast, scotochromogenic, non-spore-forming species of slow-growing nontuberculous mycobacteria.[1] Classified within the *M. simiae* complex, *M. europaeum* is distinguishable from other members by the lack of *α'*-mycolates in its mycolic acid composition and by unique sequences in the16S rRNA, internal transcribed spacer (ITS) 1, heat shock protein 65 *(hsp65)* and beta subunit of RNA polymerase *(rpoB)* genes.[1,2] *M. europaeum* has been isolated from clinical samples from patients in Italy, Greece, Sweden, France, Iran and Zambia.[1,2,3,4]

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-49081 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: 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 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 europaeum*, Strain FI-95228T, NR-49081."

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:
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References:

1. Tortoli, E., et al. "*Mycobacterium europaeum* sp. nov., a Scotochromogenic Species Related to the *Mycobacterium simiae* Complex." Int. J. Syst. Evol. Microbiol. 61 (2011): 1606-1611. PubMed: 20693362.
2. Mwikuma, G., et al. "Molecular Identification of Non-Tuberculous Mycobacteria Isolated from Clinical Specimens in Zambia." Ann. Clin. Microbiol. Antimicrob. 14 (2015): 1. PubMed: 25592857.
3. Phelippeau, M., et al. "Respiratory Tract Isolation of *Mycobacterium europaeum* following Influenza Infection in an Immunocompromised Patient: A Case Report." J. Med. Case. Rep. 8 (2014): 463. PubMed: 25539638.
4. Pourahmad, F., et al. "Report of Two Cases of *Mycobacterium europaeum* from Iran." Jpn. J. Infect. Dis. 65 (2012): 239-541. PubMed: 23183208.
5. Tortoli, E. "Microbiological Features and Clinical Relevance of New Species of the Genus *Mycobacterium*." Clin. Microbiol. Rev. 27 (2014): 727-752. PubMed: 25278573.

Support Provided by NIAID