Product Information Sheet for NR-49077

Mycobacterium insubricum, Strain FI-06250T

Catalog No. NR-49077

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Mycobacteriaceae*, *Mycobacterium*
Species: *Mycobacterium insubricum*
Strain: FI-06250T (also referred to as DSM 45132^T and CIP 109609^T)[1]
Original Source: *Mycobacterium insubricum (M. insubricum)*, strain FI-06250T was isolated in 2006 from the sputum of a 62-year-old patient with chronic obstructive pulmonary disease in Varese, Italy.[1]
Comments: *M. insubricum*, strain FI-06250T was deposited to BEI Resources as the type strain for the species.[1] The complete genome of *M. insubricum*, strain FI-06250T is currently being sequenced by BEI Resources.

M. insubricum is a Gram-positive, acid-fast, non-motile species of rapidly growing nontuberculous mycobacteria characterized by distinct 16S ribosomal RNA, RNA polymerase beta subunit (*rpo*B), 16S-23S internal transcribed spacer (ITS) 1 and 65 kDa heat shock protein (*hsp*65) gene sequences.[1] Lipid analysis of *M. insubricum* indicates a rare mycolic acid pattern with only α-mycolates.[1] *M. insubricum* has been isolated from sputum of patients with various pulmonary diseases, the skin of a patient with extra-pulmonary disease, as well as from the freshwater fish tench *(Tinca tinca)*.[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-49077 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, slant and/or plate at 37°C for 5 to 7 days.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium insubricum*, Strain FI-06250T, NR-49077."

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 insubricum* sp. nov." Int. J. Syst. Evol. Microbiol. 59 (2009): 1518-1523. PubMed: 19502346.
2. Varghese, B., et al. "Emergence of Rare Species of Nontuberculous Mycobacteria as Potential Pathogens in Saudi Arabian Clinical Setting." PLoS Negl. Trop. Dis. 11 (2017): e0005288. PubMed: 28076350.
3. Slany, M., et al. "First Isolation of a Newly Described *Mycobacterium insubricum* from Freshwater Fish." Vet. Microbiol. 144 (2010): 254-255. PubMed: 20056356.
4. Mrlik, V., et al. "A Low Prevalence of Mycobacteria in Freshwater Fish from Water Reservoirs, Ponds and Farms." J. Fish Dis. 35 (2012): 497-504. PubMed: 22537026.

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