

***Mycobacterium palustre*, Strain FI-05088**

Catalog No. NR-49070

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Mycobacteriaceae*, *Mycobacterium*

Species: *Mycobacterium palustre*

Strain: FI-05088

Original Source: *Mycobacterium palustre* (*M. palustre*), strain FI-05088 was isolated from a cervical lymph node of a human subject.¹

Comments: The complete genome of *M. palustre*, strain FI-05088 is currently being sequenced by BEI Resources.

M. palustre is an acid-fast, rod-shaped species of slow-growing nontuberculous mycobacteria characterized by a unique pattern of branched-chain fatty acid markers and mycolic acids profile.^{2,3} *M. palustre* has been isolated from lymph node samples from both clinical and veterinary specimens, as well as environmental sources, including natural stream water and lettuce.^{2,4,5}

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-49070 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% 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 palustre*, Strain FI-05088, NR-49070.”

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.

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References:

1. Tortoli, E., Personal Communication.
2. Torkko, P., et al. “*Mycobacterium palustre* sp. nov., a Potentially Pathogenic, Slowly Growing Mycobacterium

- Isolated from Clinical and Veterinary Specimens and from Finnish Stream Waters." Int. J. Syst. Evol. Microbiol. 52 (2002): 1519-1525. PubMed: 12361253.
3. Fedrizzi, T., et al. "Genomic Characterization of Nontuberculous Mycobacteria." Sci. Rep. 27 (2017): 7:45258. PubMed: 28345639.
 4. Dziejzinska, R., et al. "Nontuberculous Mycobacteria on Ready-to-Eat, Raw and Frozen Fruits and Vegetables." J. Food Prot. 79 (2016): 1452-1456. PubMed: 27497136.
 5. Hughes, M. S., et al. "Molecular Analysis of Mycobacteria Other than the *M. tuberculosis* Complex Isolated from Northern Ireland Cattle." Vet. Microbiol. 108 (2005): 101-112. PubMed: 15917138.

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