

***Mycobacterium longobardum*, Strain FI-07034T**

Catalog No. NR-49083

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 longobardum*

Strain: FI-07034T (also referred to as DSM 45394^T and CCUG 58460^T)¹

Original Source: *Mycobacterium longobardum* (*M. longobardum*), strain FI-07034T was isolated in 2006 from a 72-year-old female with bronco-pneumonitis in Lombardy, Italy.¹

Comments: *M. longobardum*, strain FI-07034T was deposited to BEI Resources as the type strain for the species.¹ The complete genome of *M. longobardum*, strain FI-07034T is currently being sequenced by BEI Resources.

M. longobardum is an acid-fast, rod-shaped species of slow-growing nontuberculous mycobacteria, and is classified within the *M. terrae* complex.² Members of this complex, generally found in soil, are distinguishable from other slow-growing nontuberculosis mycobacteria by unique sequences in the 16S rRNA, *hsp65* and *rpoB* genes.² *M. longobardum* has been isolated from clinical specimens involving infections within upper body extremities, as well as in the lungs.^{1,2,3}

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-49083 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 longobardum*, Strain FI-07034T, NR-49083."

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., et al. "Survey of 150 Strains Belonging to the *Mycobacterium terrae* Complex and Description of *Mycobacterium engbaekii* sp. nov., *Mycobacterium heraklionense* sp. nov. and *Mycobacterium longobardum* sp. nov." Int. J. Syst. Evol. Microbiol. 63 (2013): 401-411. PubMed: 22447702.
2. Tortoli, E., et al. "Microbiological Features and Clinical Relevance of New Species of the Genus *Mycobacterium*." Clin. Microbiol. Rev. 27 (2014): 727-752. PubMed: 25278573.
3. Hong, S. K., et al. "First Case of *Mycobacterium longobardum* Infection." Ann. Lab. Med. 33 (2013): 356-359. PubMed: 24003427.

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