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SUPPORTING INFECTIOUS DISEASE RESEARCH

# *Mycobacterium heraklionense,* Strain GN-1T

## Catalog No. NR-49082

## For research use only. Not for use in humans.

#### Contributor:

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#### Manufacturer:

**BEI Resources** 

#### **Product Description:**

<u>Bacteria Classification</u>: *Mycobacteriaceae*, *Mycobacterium* <u>Species</u>: *Mycobacterium heraklionense* 

<u>Strain</u>: GN-1T (also referred to as GN01<sup>T</sup>, NCTC 13432<sup>T</sup>, LMG 24735<sup>T</sup> and CECT 7509<sup>T</sup>)<sup>1</sup>

- <u>Original Source</u>: *Mycobacterium heraklionense* (*M. heraklionense*), strain GN-1T is a clinical isolate collected in 2002 from sputum of a 74-year-old male in Greece.<sup>1,2</sup>
- <u>Comments</u>: *M. heraklionense*, strain GN-1T was deposited to BEI Resources as the type strain for the species.<sup>1</sup> The complete genome of *M. heraklionense*, strain GN-1T is currently being sequenced by BEI Resources.

*M. heraklionense* is an acid-fast, unpigmented, rod-shaped species of slow-growing nontuberculous mycobacteria classified within the *M. terrae* complex, and has a worldwide distribution.<sup>1,2,3</sup> Members of this complex, generally found in soil, are distinguishable from other slow-growing nontuberculosis mycobacteria by unique sequences in the 16S rRNA, *hsp*65 and *rpoB* genes.<sup>3</sup>

#### **Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Middlebrook 7H9 broth with ADC enrichment supplemented with 10% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

## Packaging/Storage:

NR-49082 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

BEI Resources www.beiresources.org Atmosphere: Aerobic with 5% CO<sub>2</sub>

## 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 heraklionense*, Strain GN-1T, NR-49082."

#### **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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

#### **Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

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## **References:**

- 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 heraklionense sp. nov." <u>Int. J. Syst. Evol. Microbiol.</u> 63 (2013): 401-411. PubMed: 22447702.
- Neonakis, I. K., D. A. Spandidos and Z. Gitti. *"Mycobacterium heraklionense* sp. nov.: A Case Series." <u>Exp. Ther. Med.</u> 10 (2015): 1401-1403. PubMed: 26622497.
- Tortoli, E., et al. "Microbiological Features and Clinical Relevance of New Species of the Genus *Mycobacterium.*" <u>Clin. Microbiol. Rev.</u> 27 (2014): 727-752. PubMed: 25278573.

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