

## ***Mycobacterium paraense*, Strain IEC26T**

### **Catalog No. NR-49087**

### **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 paraense*

Strain: IEC26T (also referred to as DSM 46749T and CCUG 66121T)<sup>1</sup>

Original Source: *Mycobacterium paraense* (*M. paraense*), strain IEC26T was isolated between 2009 and 2010 from the sputum of a patient in Parauapebas, Pará, Brazil.<sup>1</sup>

Comments: *M. paraense*, strain IEC26T was deposited to BEI Resources as the type strain of the species. The complete genome of *M. paraense*, strain IEC26T is currently being sequenced by BEI Resources.

*M. paraense* is a Gram-positive, acid-fast, scotochromogenic, slow-growing nontuberculosis mycobacterium classified within the *M. simiae* complex.<sup>1</sup> *M. paraense* is distinguishable from other members of the complex by a distinct high pressure liquid chromatography (HPLC) profile of mycolic acids and by large microheterogeneity in the 16S ribosomal RNA gene, 65 kDa heat-shock protein (*hsp65*), RNA polymerase beta subunit (*rpoB*) and internal transcribed spacer (ITS) 1 sequences.<sup>1</sup> *M. paraense* has also been isolated in Zimbabwe and in the United States.<sup>2,3</sup>

#### **Material Provided:**

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

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

#### **Packaging/Storage:**

NR-49087 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<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 paraense*, Strain IEC26T, NR-49087."

#### **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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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#### References:

1. Fusco da Costa, A. R., et al. "Characterization of 17 Strains Belonging to the *Mycobacterium simiae* Complex and Description of *Mycobacterium paraense* sp. nov." Int. J. Syst. Evol. Microbiol. 65 (2012): 656-662. PubMed: 25487637.
2. Poonawala, H., et al. "Misidentification of *Mycobacterium paraense* as *Mycobacterium avium* Complex by Accuprobe." J. Clin. Microbiol. 55 (2017): 2283-2284. PubMed: 28468858.
3. Chin'ombe, N., et al. "Molecular Identification of Nontuberculous Mycobacteria in Humans in Zimbabwe Using 16S Ribosequencing." Open Microbiol. J. 10 (2016): 113-123. PubMed: 27335623.

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