

## ***Mycobacterium fragae*, Strain HF8705T**

### **Catalog No. NR-49084**

**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 fragae*

Strain: HF8705T (also referred to as DSM 45731<sup>T</sup> and Fiocruz-INCQS/CMRVS P4501<sup>T</sup>)<sup>1</sup>

Original Source: *Mycobacterium fragae* (*M. fragae*), strain HF8705T was isolated in 2010 from the sputum of a patient with a lung infection in Ceará, Brazil.<sup>1</sup>

Comments: *M. fragae*, strain HF8705T was deposited to BEI Resources as the type strain for the species.<sup>1</sup> The complete genome of *M. fragae*, strain HF8705T is currently being sequenced by BEI Resources.

*M. fragae* is an acid-fast, non-motile, rod-shaped nonpigmented species of slow-growing nontuberculous mycobacteria, described on the basis of a single clinical strain.<sup>1,2</sup> *M. fragae* possesses a unique high-performance liquid chromatography (HPLC) pattern of mycolic acids, and has demonstrated susceptibility *in vitro* to doxycycline, moxicycline, sulfamethoxazole, clarithromycin, ethambutol, amikacin, ciprofloxacin, rifampicin, linezolid and streptomycin.<sup>1,2</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-49084 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 fragae*, Strain HF8705T, NR-49084."

#### **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).

#### **Disclaimers:**

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#### References:

1. Ramos, J. P., et al. "*Mycobacterium fragae* sp. nov., a Non-Chromogenic Species Isolated from Human Respiratory Specimens." Int. J. Syst. Evol. Microbiol. 63 (2013): 2583-2587. PubMed: 23264503.
2. Tortoli, E. "Microbiological Features and Clinical Relevance of New Species of the Genus *Mycobacterium*." Clin. Microbiol. Rev. 27 (2014): 727-752. PubMed: 25278573.

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