Product Information Sheet for NR-49072

Mycobacterium chimaera, Strain FI-01069T

Catalog No. NR-49072

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Mycobacteriaceae*, *Mycobacterium*
Species: *Mycobacterium chimaera*
Strain: FI-01069T (also referred to as DSM 44623^T and CIP 107892^T)[1]
Original Source: *Mycobacterium chimaera (M. chimaera)*, strain FI-01069T was isolated between 1999-2003 from sputum of a 56-year old female with bronchiectasis in Italy.[1]
Comment: *M. chimaera,* strain FI-01069T was deposited to BEI Resources as the type strain for this species.[1,2] The complete genome of *M. chimaera*, strain FI-01069T is available (GenBank: MRBR00000000).

M. chimaera is an acid-fast, rod-shaped species of slow-growing nontuberculous mycobacteria classified within the *Mycobacterium avium* complex (MAC).[2] It is distinguished by a unique mycolic acid pattern obtained by high pressure liquid chromatography (HPLC), which presents two clusters of peaks instead of the three presented by all other MAC organisms.[2] *M. chimaera* has been isolated from human pulmonary samples, rats and environmental samples including water and soil.[2-5]

Material Provided:
Each vial contains approximately 0.7 mL of bacterial culture in Middlebrook 7H9 broth with ADC enrichment with 10% glycerol.

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

Packaging/Storage:
NR-49072 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 ADC enrichment or equivalent
Middlebrook 7H10 agar with OADC enrichment or equivalent
Incubation:
Temperature: 37°C
Atmosphere: Aerobic with 5% CO_2

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 tube, slant and/or 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 chimaera*, Strain FI-01069T, NR-49072."

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.

Disclaimers:
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References:

1. Tortoli, E., et al. "Proposal to Elevate the Genetic Variant MAC-A, Included in the *Mycobacterium avium* Complex, to Species Rank as *Mycobacterium chimaera* sp. nov." Int. J. Syst. Evol. Microbiol. 54 (2004): 1277-1285. PubMed: 15280303.
2. Tortoli, E., Personal Communication.
3. Honda, J. R., et al. "Environmental Nontuberculous Mycobacteria in the Hawaiian Islands." PLoS Negl. Trop. Dis. 10 (2016): e0005068. PubMed: 27780201.
4. Durnez, L., et al. "First Detection of Mycobacteria in African Rodents and Insectivores, Using Stratified Pool Screening." Appl. Environ. Microbiol. 74 (2008): 768-773. PubMed: 18065608.
5. Wallace, R. J., Jr., et al. "Absence of *Mycobacterium intracellulare* and Presence of *Mycobacterium chimaera* in Household Water and Biofilm Samples of Patients in the Unitede States with *Mycobacterium avium* Complex Respiratory Disease." J. Clin. Microbiol. 51 (2013): 1747-1752. PubMed: 23536397.

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