

***Mycobacterium intracellulare* subsp. *chimaera*, Strain FI-01069T (Deposited as *Mycobacterium chimaera*, Strain FI-01069T)**

Catalog No. NR-49072

Product Description:

Mycobacterium intracellulare subsp. *chimaera* (*M. intracellulare* subsp. *chimaera*), strain FI-01069T was isolated between 1999-2003 from sputum of a 56-year old female with bronchiectasis in Italy. Previously referred to as *Mycobacterium chimaera*, this species has reclassified and the species designation on the vial label refers to the old nomenclature. NR-49072 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment and grown for 13 days at 37°C in an aerobic atmosphere with 5% CO₂. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Lot: 70004908

Manufacturing Date: 28JUN2017

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis¹ Cellular morphology Colony morphology 12 days in an aerobic atmosphere with 5% CO ₂ on Middlebrook 7H10 agar with OADC enrichment Growth rate Growth at 45°C Growth at 55°C Acid-fast stain Pigmentation in the dark (Scotochromogen) Photoinduction for 1 hour (Photochromogen) Nonchromogen (no pigment) Biochemical tests ³ Catalase Catalase (semiquantitative) Catalase (68°C) Iron uptake Nitrate reduction Tween 80 hydrolysis Urease Growth in the presence of 5% sodium chloride Growth in the presence of thiophene-2-carboxylic acid hydrazide (TCH)	Rods Report results ≥ 7 days Negative Report results Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment) Report results Negative Positive Report results Negative Negative Negative Negative Negative Negative Positive	Rods Circular, convex, entire, smooth and cream (Figure 1) 12 days Variable ² Negative Positive (red colonies) Negative (no pigment) Negative (no pigment) Positive (no pigment) Negative Negative Positive Negative Negative Negative Negative Positive ⁴ Positive
Genotypic Analysis Sequencing of Heat Shock Protein 65 gene (~ 420 base pairs) Digital DNA-DNA hybridization (dDDH) ⁵	≥ 99% sequence identity to <i>M. intracellulare</i> subsp. <i>chimaera</i> , strain FI-0169T (GenBank: MRBR01000001.1) ≥ 70% for species identification	99.8% sequence identity to <i>M. intracellulare</i> subsp. <i>chimaera</i> , strain FI-0169T (GenBank: MRBR01000001.1) <i>M. chimaera</i> (99.7%) ⁶
Purity (post-freeze) Middlebrook 7H10 agar with OADC enrichment 12 days in an aerobic atmosphere with 5% CO ₂ Tryptic Soy agar 12 days in an aerobic atmosphere with 5% CO ₂	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected colony morphology

Certificate of Analysis for NR-49072

TEST	SPECIFICATIONS	RESULTS
Viability (post-freeze) 12 days in an aerobic atmosphere on Middlebrook 7H10 agar with OADC enrichment	Growth	Growth

¹Information on *Mycobacterium* testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." Biochemical Testing. (2012) Jose C. Jimenez-Lopez (Ed.), InTech, Available from: [Biochemical Isolation and Identification of Mycobacteria](#) and Lévy-Frébault, V. V. and F. Portals. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." Int. J. Syst. Bacteriol. 42 (1992): 315-323. PubMed: 1581193.

²NR-49072 was deposited as *M. chimaera* and is reported to be negative for growth at 45°C. Testing performed by BEI Resources indicates growth was observed after 21 days at 45°C in an aerobic atmosphere in Middlebrook 7H9 broth with ADC enrichment. Growth was not observed after 21 days at 45°C in an aerobic atmosphere on Middlebrook 7H10 agar with OADC enrichment.

³Negative tests are observed for > 7 days.

⁴NR-49072 was deposited as *M. chimaera* and is reported to be negative for growth in presence of 5% sodium chloride. Testing performed in triplicate by BEI Resources indicates a positive result.

⁵Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

⁶The whole genome of *M. intracellulare* subsp. *chimaera*, strain FI-01069T (Contig Total length ~ 6.1 megabase pairs) was sequenced using the Illumina® MiSeq® system and was assembled and analyzed with CLC Genomics Workbench Version 7.0.2.

Figure 1: Colony Morphology



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16 JUN 2026

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