

Certificate of Analysis for NR-44267

Mycobacterium intracellulare, Strain 1956

Catalog No. NR-44267

Product Description:

Mycobacterium intracellulare (M. intracellulare), strain 1956 was isolated in 2011 from human sputum at NIAID, NIH, Bethesda, Maryland, USA. NR-44267 was produced by inoculation of BEI Resources seed lot 62009739 into Middlebrook 7H9 broth with ADC enrichment and grown for 17 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 15 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Lot: 70031778 Manufacturing Date: 07FEB2020

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis ¹		
Cellular morphology 14 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Middlebrook 7H10 agar with OADC enrichment	Gram-positive rods	Gram-positive rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Growth rate	≥ 7 days	14 days
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
Biochemical tests		
VITEK® MS (MALDI-TOF)	M. intracellulare (≥ 90%)	M. intracellulare (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (1420 base pairs)	≥ 99% sequence identity to M. intracellulare, strain 1956 (GenBank: JAOG01000001.1)	100% sequence identity to M. intracellulare, strain 1956 (GenBank: JAOG01000001.1)²
Sequencing of Heat Shock Protein 65 gene (~ 440 base pairs)	≥ 99% sequence identity to M. intracellulare, strain 1956 (GenBank: JAOG01000003.1)	99.8% sequence identity to M. intracellulare, strain 1956 (GenBank: JAOG01000003.1) ²
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment 18 days at 37°C in an aerobic atmosphere with 5% CO ₂ Tryptic Soy agar	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected
18 days at 37°C in an aerobic atmosphere with 5% CO ₂	·	colony morphology
Viability	Growth	Growth
14 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Middlebrook 7H10 agar with OADC enrichment		

¹Information on *Mycobacterium* testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria." <u>Biochemical Testing</u>. (2012) Jose C. Jimenez-Lopez (Ed.), InTech, Available from: http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria, Lévy-Frébault, V. V. and F. Portaels. "Proposed Minimal Standards for the Genus *Mycobacterium* and for Description of New Slowly Growing *Mycobacterium* Species." <u>Int. J. Syst. Bacteriol.</u> 42 (1992): 315-323. PubMed: 1581193, and Magee, J. G. and A. C. Ward. "Family III. *Mycoacteriaceae* Chester 1897, 63^{AL}." <u>Bergey's® Manual of Systematic Bacteriology, Volume 5.</u> (2012) Goodfellow, M., et al. (Ed.), Springer.

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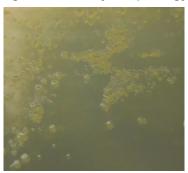
Fax: 703-365-2898

²Phenotypic tests performed on BEI Resources seed lot 62009739 rule out other slow-growing *Mycobacterium* species [Magee, J. G. and A. C. Ward. "Family III. *Mycoacteriaceae* Chester 1897, 63^{AL}." Bergey's® Manual of Systematic Bacteriology, Volume 5. (2012) Goodfellow, M., et al. (Ed.), Springer.].



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Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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