Certificate of Analysis for NR-44264

Mycobacterium avium, Strain 2285 Rough

Catalog No. NR-44264

This reagent is the tangible property of the U.S. Government.

Product Description:

Mycobacterium avium (M. avium), strain 2285 Rough was isolated between 2009 and 2013 from human sputum at the National Institute for Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Bethesda, Maryland, USA. NR-44264 was produced by inoculation of BEI Resources seed lot 62009736 into Middlebrook 7H9 broth with ADC enrichment and grown for 14 days at 37°C in an aerobic atmosphere with 5% CO_2. Broth inoculum was added to Middlebrook 7H10 agar with OADC enrichment kolles, which were grown for 7 days at 37°C in an aerobic atmosphere with 5% CO_2 to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70076374 **Manufacturing Date: 27JUN2025**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis[1,2]		
Cellular morphology	Gram-positive rods	Gram-positive rods
Colony morphology	Report results	Irregular, flat, undulate, opaque, rough and cream
Motility (wet mount)	Non-motile	Non-motile
Growth rate	≥ 7 days	9 days
Acid-fast stain	Positive (red colonies)	Positive (red colonies)
VITEK® MS (MALDI-TOF)	*M. avium*	*M. avium* (99.9%)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (1420 base pairs)	≥ 99% sequence identity to *M. avium*, strain 2285 Rough (GenBank: JAOE01000002.1)	99.9% sequence identity to *M. avium*, strain 2285 Rough (GenBank: JAOE01000002.1)
Sequencing of Heat Shock Protein 65 gene (~ 350 base pairs)	≥ 99% sequence identity to *M. avium*, strain 2285 Rough (GenBank: JAOE01000002.1)	100% sequence identity to *M. avium*, strain 2285 Rough (GenBank: JAOE01000002.1)
Purity (post-freeze)		
Middlebrook 7H10 agar with OADC enrichment[3] 9 days at 37°C in an aerobic atmosphere with 5% CO_2	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Tryptic Soy agar 9 days at 37°C in an aerobic atmosphere with 5% CO_2	Report results	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Information on *Mycobacterium* testing is available from Ribón, W. "Biochemical Isolation and Identification of Mycobacteria, Biochemical Testing." Biochemical Testing. (2012) Jose C. Jimenez-Lopez (Ed.), InTech, Available from: Biochemical Isolation and Identification of Mycobacteria.

[2]Phenotypic tests performed on NRS-44264 lot 62009736 ruled out other slow-growing *Mycobacterium* species [Magee, J. G. and A. C. Ward. "Family III. *Mycobacteriaceae* Chester 1897, 63^{AL}." Bergey's® Manual of Systematic Bacteriology, Second Edition, Volume Five. (2012) Goodfellow, M., et al. (Ed.), Springer].

[3]M7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms.

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/Sonia Bjorum Brower/
Sonia Bjorum Brower 02 FEB 2026
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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