

***Mycobacterium kansasii*, Strain 824**

Catalog No. NR-44269

Product Description: *Mycobacterium kansasii* (*M. kansasii*), strain 824 was isolated in 2012 from human sputum at the University of Texas Health Science Center at Tyler, Tyler, Texas, USA.

Lot¹: 62009754

Manufacturing Date: 02OCT2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis² Cellular morphology Colony morphology ³ Motility (wet mount) Growth on Brain Heart Infusion agar Growth rate Acid-fast stain Photoinduction for 1 hour (Photochromogen) Biochemical tests ^{4,5} Catalase Catalase (semiquantitative) Catalase (68°C) Iron uptake Nitrate reduction Tween 80 hydrolysis	Gram-positive rods Report results Report results Report results ≥ 7 days Positive (red colonies) Positive (pigment) Positive Positive Positive Negative Positive Positive	Gram-positive rods Punctiform and yellow (Figure 1) Non-motile Growth ≥ 7 days Positive (red colonies) Positive (yellow pigment) Positive Positive Positive Negative Positive Positive
Genotypic Analysis^{6,7} Whole Genome Sequencing (~ 6.4 megabase pairs)	Report results	Consistent with <i>M. kansasii</i>
Purity (post-freeze)^{8,9}	Growth consistent with <i>M. kansasii</i>	Growth consistent with <i>M. kansasii</i>
Viability (post-freeze)³	Growth	Growth

¹NR-44269 was produced by inoculation of the deposited material into Middlebrook 7H9 broth with ADC enrichment and grown for 8 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 under propagation conditions to produce this lot.

²Information 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: <http://www.intechopen.com/books/biochemical-testing/biochemical-isolation-and-identification-of-mycobacteria> and Lévy-Frébault, V. V. and F. Portaels. "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.

³9 days on Middlebrook 7H10 agar with OADC enrichment under propagation conditions

⁴Negative tests are observed for > 7 days.

⁵Biochemical test results rule out other slow-growing *Mycobacterium* species, including *M. africanum*, *M. asiaticum*, *M. celatum*, *M. haemophilum*, *M. marinum*, *M. simiae*, *M. ulcerans* and *M. xenopi*.

⁶DNA was extracted from a broth culture produced from NR-44269 lot 62009754.

⁷Illumina[®] MiSeq[®] sequence was analyzed with CLC Genomics Workbench Version 7.0.2.

⁸Purity of this lot was assessed for 9 days on Middlebrook 7H10 agar with OADC enrichment under propagation conditions.

⁹Middlebrook 7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms.

Figure 1: Colony Morphology



Date: 27 OCT 2015

Signature:

A handwritten signature in black ink, appearing to read "David Archer".

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