

***Mycobacterium kansasii*, Strain 824**

**Catalog No. NR-44269**

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**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. NR-44269 was produced by inoculation of BEI Resources seed lot 62009741 into Middlebrook 7H9 broth with ADC enrichment and grown for 8 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. 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% CO<sub>2</sub> to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

**Lot: 70067434**

**Manufacturing Date: 26APR2024**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis<sup>1</sup></b> Cellular morphology Colony morphology Motility (wet mount) Growth rate Acid-fast stain VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-positive rods Report results Report results ≥ 7 days Positive (red colonies) <i>M. kansasii</i>	Gram-positive rods Punctiform (Figure 1) Non-motile 8 days Positive (red colonies) <i>M. kansasii</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs) Sequencing of Heat Shock Protein 65 gene (~ 440 base pairs)	≥ 99% sequence identity to <i>M. kansasii</i> , strain 824 (GenBank: JANY01000002.1) ≥ 99% sequence identity to <i>M. kansasii</i> , strain 824 (GenBank: JANY01000001.1)	99.5% sequence identity to <i>M. kansasii</i> , strain 824 (GenBank: JANY01000002.1) <sup>2</sup> 99.1% sequence identity to <i>M. kansasii</i> , strain 824 (GenBank: JANY01000001.1)
<b>Purity (post-freeze)</b> Middlebrook 7H10 agar with OADC enrichment <sup>3</sup> 8 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> Tryptic Soy agar 8 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub>	Growth consistent with expected colony morphology Report results	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
<b>Viability</b>	Growth	Growth

<sup>1</sup>Information 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](#), 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, and Magee, J. G. and A. C. Ward. "Family III. *Mycoacteriaceae* Chester 1897, 63<sup>AL</sup>." *Bergey's<sup>®</sup> Manual of Systematic Bacteriology, Volume 5*. (2012) Goodfellow, M., et al. (Ed.), Springer.

<sup>2</sup>Phenotypic tests performed on BEI Resources seed lot 62009741 rule out other slow-growing *Mycobacterium* species [Magee, J. G. and A. C. Ward. "Family III. *Mycoacteriaceae* Chester 1897, 63<sup>AL</sup>." *Bergey's<sup>®</sup> Manual of Systematic Bacteriology, Volume 5*. (2012) Goodfellow, M., et al. (Ed.), Springer.].

<sup>3</sup>M7H10 agar with OADC enrichment contains malachite green, which may inhibit growth of contaminating microorganisms

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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23 AUG 2024

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