

***Klebsiella pneumoniae*. Strain MRSN 16233**

Catalog No. NR-55524

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Product Description:

Klebsiella pneumoniae (K. pneumoniae), strain MRSN 16233 was isolated in 2013 from a human urine sample in Asia as part of a global surveillance program. NR-55524 was deposited as a non-multidrug-resistant strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftazidime/avibactam, ceftolozane/tazobactam, ceftriaxone, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, tetracycline, tigecycline, tobramycin and trimethoprim/sulfamethoxazole and resistant to piperacillin/tazobactam. NR-55524 was produced by inoculation of BEI Resources seed lot 70050345 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70077087

Manufacturing Date: 03JUL2025

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphologies ¹ Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Non-motile <i>K. pneumoniae</i>	Gram-negative rods Colony type 1: Circular, convex, entire, smooth, mucoid and cream (Figure 1) Colony type 2: Circular, convex, entire, smooth and cream (Figure 1) Non-motile <i>K. pneumoniae</i> (99.9%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Aztreonam Cefepime Ceftazidime Ceftazidime/avibactam Ceftolozane/tazobactam Ceftriaxone Ciprofloxacin Ertapenem Gentamicin Imipenem Levofloxacin Meropenem Piperacillin/tazobactam Tetracycline Tigecycline Tobramycin Trimethoprim/sulfamethoxazole	Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Intermediate Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive	Sensitive (≤ 2 µg/mL) Sensitive (4 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.125 µg/mL) Sensitive (≤ 0.125 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.023 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.5 µg/mL)⁴ Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 4 µg/mL) ⁵ Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) ⁶ Sensitive (≤ 1 µg/mL) Sensitive (≤ 20 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 16233 (GenBank: JAGYEI010000075.1)	99.8% sequence identity to <i>K. pneumoniae</i> , strain MRSN 16233 (GenBank: JAGYEI010000075.1) ⁷

Certificate of Analysis for NR-55524

TEST	SPECIFICATIONS	RESULTS
Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

¹Two colony types were observed. Plating the individual colony types showed that they did not revert to the mixed colony type. VITEK® MS (MALDI-TOF) analysis identified cells from both colony types as *K. pneumoniae*.

²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018).

³Antibiotic susceptibility was tested using a combination of bioMérieux VITEK® 2 GN74 and ETEST®.

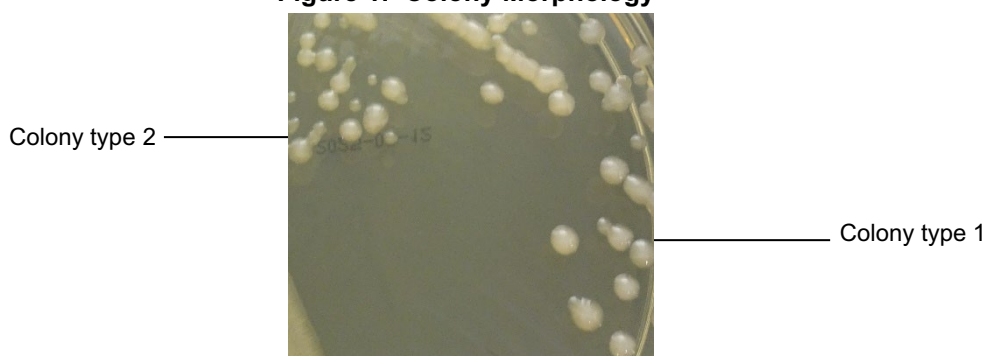
⁴*K. pneumoniae*, strain MRSN 16233 was deposited as sensitive to imipenem and was found to be intermediately resistant for lot 70050344, but showed a MIC of 0.5 µg/mL (interpreted as sensitive) for lot 70077087 during QC testing.

⁵*K. pneumoniae*, strain MRSN 16233 was deposited as sensitive to piperacillin/tazobactam, but showed a MIC of 2 µg/mL (interpreted as sensitive) for lot 70050344 during QC testing

⁶MIC Interpretation Guideline: EUCAST Version 8.0 (2018).

⁷Also consistent with other *Klebsiella* species.

Figure 1: Colony Morphology



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