

Klebsiella pneumoniae, Strain MRSN 599975

Catalog No. NR-55580

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Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain MRSN 599975 was isolated in 2018 from a human urine sample in North America as part of a global surveillance program. NR-55580 was deposited as a multidrug-resistant strain, sensitive to amikacin, ceftazidime/avibactam, ceftolozane/tazobactam, ertapenem, imipenem, levofloxacin, meropenem, piperacillin/tazobactam and tigecycline, intermediately resistant to ciprofloxacin and resistant to ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftriaxone, gentamicin, tetracycline, tobramycin and trimethoprim/sulfamethoxazole. NR-55580 was produced by inoculation of BEI Resources seed lot 70051131 material 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: 70081136

Manufacturing Date: 30JAN2026

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Report results <i>K. pneumoniae</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Non-motile <i>K. pneumoniae</i> (99.9%)
Antibiotic Susceptibility Profile^{1,2} 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 Resistant Resistant Sensitive Report results Sensitive Sensitive Sensitive Resistant Resistant Sensitive Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Sensitive Resistant Resistant	Sensitive (4 µg/mL) Resistant (≥ 32 µg/mL) Resistant (16 µg/mL) Sensitive (2 µg/mL) ³ Resistant (≥ 32 µg/mL) ⁴ Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (≥ 64 µg/mL) Resistant (4 µg/mL) Sensitive (≤ 0.12 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (0.75 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (16 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (1 µg/mL) ⁵ Resistant (> 256 µg/mL) Resistant (≥ 320 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 599975 (GenBank: JAGYCF010000102.1)	99.6% sequence identity to <i>K. pneumoniae</i> , strain MRSN 599975 (GenBank: JAGYCF010000102.1) ⁶

Certificate of Analysis for NR-55580

TEST	SPECIFICATIONS	RESULTS
Purity 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

²Antibiotic susceptibility was tested using a combination of bioMérieux VITEK®2 N812, VITEK®2 XN33 and E-TEST®.

³*K. pneumoniae*, strain MRSN 599975 was deposited as resistant to cefepime, but showed a MIC of 2 µg/mL (interpreted as sensitive) for lot 70051130 during QC testing.

⁴*K. pneumoniae*, strain MRSN 599975 was deposited as being resistant to ceftazidime but showed MICs of 8 µg/mL (interpreted as intermediately resistant) and 16 µg/mL (interpreted as resistant) for lot 70051130 during QC testing, resulting in an inconclusive result.

⁵MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

⁶Also consistent with other *Klebsiella* species

Figure 1: Colony Morphology



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