

Klebsiella pneumoniae, Strain MRSN 22265

Catalog No. NR-55531

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Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain MRSN 22265 was isolated in 2012 from a human respiratory sample in South America as part of a global surveillance program. NR-55531 was deposited as a multidrug-resistant strain, sensitive to amikacin, cefepime, ceftazidime/avibactam, ertapenem, imipenem, meropenem, tetracycline and tigecycline, intermediately resistant to piperacillin/tazobactam and resistant to ampicillin/sulbactam, aztreonam, ceftazidime, ceftolozane/tazobactam, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin, trimethoprim/sulfamethoxazole and tobramycin. NR-55531 was produced by inoculation of BEI Resources seed lot 70050359 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: 70077243

Manufacturing Date: 16JUL2025

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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 Non-motile <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 Sensitive Resistant Sensitive Resistant Sensitive Sensitive Resistant Resistant Sensitive Resistant Sensitive Resistant Sensitive Intermediate Sensitive Sensitive Resistant Resistant	Sensitive (≤ 2 µg/mL) Inconclusive ³ Resistant (≥ 64 µg/mL) Sensitive (1.5 µg/mL) Resistant (≥ 64 µg/mL) Sensitive (0.75 µg/mL) Sensitive (0.5 µg/mL) ⁴ Resistant (8 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (0.16 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Intermediate (32 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) ⁴ Resistant (≥ 16 µg/mL) Resistant (≥ 320 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	$\geq 99\%$ sequence identity to <i>K. pneumoniae</i> , strain MRSN 22265 (GenBank: JAGYEB010000089.1)	99.5% sequence identity to <i>K. pneumoniae</i> , strain MRSN 22265 (GenBank: JAGYEB010000089.1) ⁵

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

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

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

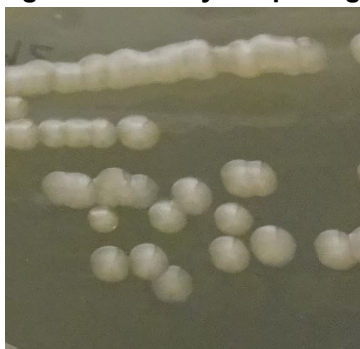
³*K. pneumoniae*, strain MRSN 22265 was deposited as resistant to ampicillin/sulbactam and was found to be sensitive for lot 70050358, but showed MICs of 8 µg/mL (interpreted as sensitive) and 16 µg/mL (interpreted as intermediately resistant) for lot 70077243 during QC testing, resulting in an inconclusive result.

⁴*K. pneumoniae*, strain MRSN 22265 was deposited as resistant to ceftolozane/tazobactam, but showed MICs of 0.5 µg/mL and 0.75 µg/mL (interpreted as sensitive) for lot 70050358 during QC testing.

⁴MIC Interpretation Guideline: EUCAST Version 8.0 (2018).

⁵Also consistent with other *Klebsiella* species.

Figure 1: Colony Morphology



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