

Klebsiella pneumoniae, Strain MRSN 526410

Catalog No. NR-55568

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Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain MRSN 526410 was isolated in 2017 from a human urine sample in Europe as part of a global surveillance program. NR-55568 was deposited as a multidrug-resistant strain, sensitive to amikacin and ceftazidime/avibactam, intermediately resistant to imipenem and resistant to ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftolozane/tazobactam, ceftriaxone, ciprofloxacin, ertapenem, gentamicin, levofloxacin, meropenem, piperacillin/tazobactam, tetracycline, tigecycline, tobramycin and trimethoprim/sulfamethoxazole. NR-55568 was produced by inoculation of BEI Resources seed lot 70051107 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. The material from the initial growth was added to Tryptic Soy broth, which was grown for 1 day at 37°C in an aerobic atmosphere to produce this lot. Quality control testing was completed on Tryptic Soy agar under propagation conditions unless otherwise noted.

Lot: 70080663

Manufacturing Date: 08JAN2026

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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 Colony type 1: Circular, convex, entire, smooth and cream Colony type 2: Circular, low convex, entire, smooth, mucoid and gray 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 Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Intermediate Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant	Sensitive (≤ 4 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Intermediate (2 µg/mL) Resistant (≥ 8 µg/mL) Resistant (8 µg/mL) Resistant (≥ 128 µg/mL) Resistant (≥ 16 µg/mL) Resistant (4 µg/mL) ³ Resistant (≥ 16 µg/mL) Resistant (≥ 320 µg/mL)

Certificate of Analysis for NR-55568

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 526410 (GenBank: JAGYCR010000086.1)	99.6% sequence identity to <i>K. pneumoniae</i> , strain MRSN 526410 (GenBank: JAGYCR010000086.1) ⁴
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 N812 and XN33 and ETEST[®].

³MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

⁴Consistent with other *Klebsiella* species

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07 APR 2026

Technical Manager or designee, ATCC Federal Solutions

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