

Klebsiella pneumoniae, Strain MRSN 740795

Catalog No. NR-55598

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Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain MRSN 740795 was isolated in 2019 from a human respiratory sample in Europe as part of a global surveillance program. NR-55598 was deposited as a multidrug-resistant strain, sensitive to amikacin, ceftazidime/avibactam, gentamicin, trimethoprim/sulfamethoxazole, tetracycline and tigecycline and resistant to ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftriaxone, ceftolozane/tazobactam, ciprofloxacin, ertapenem, imipenem, levofloxacin, meropenem, piperacillin/tazobactam and tobramycin. NR-55598 was produced by inoculation of BEI Resources seed lot 70051635 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 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: 70081979

Manufacturing Date: 11MAR2026

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) VITEK® 2 (GN card)	Gram-negative rods Report results Report results <i>K. pneumoniae</i> (≥ 89%)	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Non-motile <i>K. pneumoniae</i> (99%)
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 Sensitive Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Sensitive	Sensitive (4 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (0.5 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 128 µg/mL) Sensitive (2 µg/mL) Resistant (2 µg/mL) ^{3,4} Intermediate (8 µg/mL) ⁵ Sensitive (≤ 20 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 740795 (GenBank:	99.3% sequence identity to <i>K. pneumoniae</i> , strain MRSN 740795 (GenBank: JAGYBN010000093.1) 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 N812, VITEK®2 XN33 and ETEST®.

³MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

⁴*K. pneumoniae*, strain MRSN 740795 was deposited as sensitive to tigecycline, but showed a MIC of 2 µg/mL (interpreted as resistant) for lot 70051634 during QC testing.

⁵The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

⁶Also consistent with other *Klebsiella* species

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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09 JUN 2026

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