

***Klebsiella pneumoniae*, Strain MRSN 28866**

Catalog No. NR-55540

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Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain MRSN 28866 was isolated in 2015 from a human wound sample in North America as part of a global surveillance program. NR-55540 was deposited as a multidrug-resistant strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftazidime/avibactam, ceftolozane/tazobactam, ceftriaxone, ertapenem, imipenem, meropenem, piperacillin/tazobactam, tigecycline and trimethoprim/sulfamethoxazole, intermediately resistant to tobramycin and resistant to ciprofloxacin, gentamicin, levofloxacin and tetracycline. NR-55540 was produced by inoculation of the deposited 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: 70050377

Manufacturing Date: 16FEB2022

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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, low convex, entire, mucoid, smooth and cream Non-motile <i>K. pneumoniae</i> (94%)
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 Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Resistant Resistant Sensitive Sensitive Sensitive Sensitive Resistant Sensitive Sensitive Resistant Sensitive Intermediate Sensitive	Sensitive (≤ 2 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.023 µg/mL) Sensitive (0.032 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (0.19 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 4 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) ³ Intermediate (8 µg/mL) Sensitive (≤ 20 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 28866 (GenBank: JAGYDT010000088.1)	99.6% sequence identity to <i>K. pneumoniae</i> , strain MRSN 28866 (GenBank: JAGYDT010000088.1) ⁴

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[®].

³MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

⁴Also consistent with other *Klebsiella* species

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