

***Klebsiella pneumoniae*, Strain MRSN 607210**

**Catalog No. NR-55581**

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**Product Description:**

*Klebsiella pneumoniae* (*K. pneumoniae*), strain MRSN 607210 was isolated in 2018 from a human urine sample in North America as part of a global surveillance program. NR-55581 was deposited as a multidrug-resistant strain (MDR), sensitive to ceftazidime/avibactam, ertapenem, imipenem, meropenem, tetracycline, tigecycline and trimethoprim/sulfamethoxazole, intermediately resistant to piperacillin/tazobactam and resistant to amikacin, ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftolozane/tazobactam, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin and tobramycin. NR-55581 was produced by inoculation of the deposited material 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: 70051132**

**Manufacturing Date: 30MAR2022**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> 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> (95%)
<b>Antibiotic Susceptibility Profile<sup>1,2</sup></b> Amikacin Ampicillin/sulbactam Aztreonam Cefepime Ceftazidime Ceftazidime/avibactam Ceftolozane/tazobactam Ceftriaxone Ciprofloxacin Ertapenem Gentamicin Imipenem Levofloxacin Meropenem Piperacillin/tazobactam Tetracycline Tigecycline Tobramycin Trimethoprim/sulfamethoxazole	Resistant Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Sensitive Resistant Sensitive Sensitive Resistant Sensitive Intermediate Sensitive Sensitive Resistant Sensitive	Resistant (≥ 256 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Sensitive (1.5 µg/mL) Resistant (12 to 48 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 256 µg/mL) Sensitive (0.38 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Intermediate (64 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) <sup>3</sup> Resistant (≥ 16 µg/mL) Sensitive (≤ 20 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 607210 (GenBank: JAGYCE010000063.1)	99.8% sequence identity to <i>K. pneumoniae</i> , strain MRSN 607210 (GenBank: JAGYCE010000063.1) <sup>4</sup>

TEST	SPECIFICATIONS	RESULTS
<b>Purity</b> 7 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability</b>	Growth	Growth

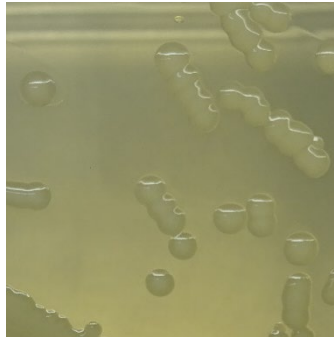
<sup>1</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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

<sup>3</sup>MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

<sup>4</sup>Also consistent with other *Klebsiella* species

Figure 1: Colony Morphology



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