

***Klebsiella pneumoniae*, Strain MRSN 15687**

**Catalog No. NR-55520**

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**Product Description:**

*Klebsiella pneumoniae* (*K. pneumoniae*), strain MRSN 15687 was isolated in 2013 from a human urine sample in North America as part of a global surveillance program. NR-55520 was deposited as a multidrug-resistant strain, sensitive to amikacin, ceftazidime/avibactam, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole, tetracycline and tigecycline, intermediately resistant to piperacillin/tazobactam and resistant to ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftolozane/tazobactam, ceftriaxone and tobramycin. NR-55520 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: 70049643**

**Manufacturing Date: 26JAN2022**

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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, mucoid and cream  Non-motile <i>K. pneumoniae</i> (99%)
<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	Sensitive Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Intermediate Sensitive Sensitive Sensitive Resistant Sensitive	Sensitive (4 µg/mL) Resistant (≥ 32 µg/mL) Resistant (32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (16 µg/mL) Sensitive (0.5 µg/mL) Resistant (≥ 256 µg/mL) Resistant (≥ 64 µg/mL) Sensitive (0.125 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.25 to 0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Intermediate (48 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.5 µg/mL) <sup>3</sup> Resistant (≥ 16 µg/mL) Resistant (> 32 µg/mL) <sup>4</sup>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>K. pneumoniae</i> , strain MRSN 15687 (GenBank: JAGYEM010000080.1)	99.6% sequence identity to <i>K. pneumoniae</i> , strain MRSN 15687 (GenBank: JAGYEM010000080.1) <sup>5</sup>

TEST	SPECIFICATIONS	RESULTS
<b>Purity</b> 7 days at 37°C in an aerobic atmosphere with and without 5% CO <sub>2</sub> on Tryptic Soy agar	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>*K. pneumoniae*, strain MRSN 15687 was deposited as sensitive to trimethoprim/sulfamethoxazole, but showed a MIC of > 32 µg per mL (interpreted as resistant) for this antibiotic during QC testing. Testing was performed twice in duplicate.

<sup>5</sup>Also consistent with other *Klebsiella* species

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