

***Klebsiella pneumoniae*, Strain MRSN 518712**

Catalog No. NR-55567

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Product Description:

Klebsiella pneumoniae (*K. pneumoniae*), strain MRSN 518712 was isolated in 2016 from a human sample in the Middle East as part of a global surveillance program. NR-55567 was deposited as a multidrug-resistant strain, sensitive to amikacin, ceftazidime/avibactam, ceftolozane/tazobactam, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tetracycline, tigecycline and tobramycin and resistant to ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftriaxone and trimethoprim/sulfamethoxazole. NR-55567 was produced by inoculation of BEI Resources seed lot 70051105 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: 70080662

Manufacturing Date: 08JAN2026

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E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth, mucoid and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
VITEK® MS (MALDI-TOF)	<i>K. pneumoniae</i>	<i>K. pneumoniae</i> (99.9%)
Antibiotic Susceptibility Profile^{1,2}		
Amikacin	Sensitive	Sensitive ($\leq 1 \mu\text{g/mL}$)
Ampicillin/sulbactam	Resistant	Resistant ($\geq 32 \mu\text{g/mL}$)
Aztreonam	Resistant	Resistant ($16 \mu\text{g/mL}$)
Cefepime	Sensitive	Intermediate ($6 \mu\text{g/mL}$) ³
Ceftazidime	Resistant	Resistant ($\geq 32 \mu\text{g/mL}$)
Ceftazidime/avibactam	Sensitive	Sensitive ($\leq 0.12 \mu\text{g/mL}$)
Ceftolozane/tazobactam	Sensitive	Sensitive ($\leq 0.25 \mu\text{g/mL}$)
Ceftriaxone	Resistant	Resistant ($\geq 64 \mu\text{g/mL}$)
Ciprofloxacin	Sensitive	Sensitive ($0.5 \mu\text{g/mL}$)
Ertapenem	Sensitive	Sensitive ($\leq 0.12 \mu\text{g/mL}$)
Gentamicin	Sensitive	Sensitive ($\leq 1 \mu\text{g/mL}$)
Imipenem	Sensitive	Sensitive ($\leq 0.25 \mu\text{g/mL}$)
Levofloxacin	Sensitive	Sensitive ($1 \mu\text{g/mL}$)
Meropenem	Sensitive	Sensitive ($\leq 0.25 \mu\text{g/mL}$)
Piperacillin/tazobactam	Sensitive	Sensitive ($\leq 4 \mu\text{g/mL}$)
Tetracycline	Sensitive	Sensitive ($\leq 1 \mu\text{g/mL}$)
Tigecycline	Sensitive	Sensitive ($0.75 \mu\text{g/mL}$) ⁴
Tobramycin	Sensitive	Sensitive ($\leq 1 \mu\text{g/mL}$)
Trimethoprim/sulfamethoxazole	Resistant	Resistant ($\geq 320 \mu\text{g/mL}$)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	$\geq 99\%$ sequence identity to <i>K. pneumoniae</i> , strain MRSN 518712 (GenBank: JAGYCS010000120.1)	99.5% sequence identity to <i>K. pneumoniae</i> , strain MRSN 518712 (GenBank: JAGYCS010000120.1) ⁵

Certificate of Analysis for NR-55567

TEST	SPECIFICATIONS	RESULTS
Purity 8 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)

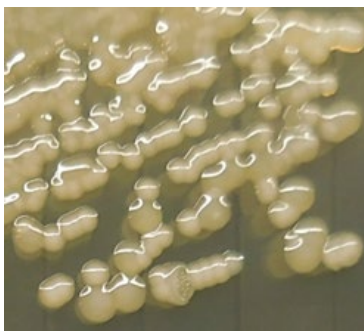
²Antibiotic susceptibility was tested using a combination of bioMérieux VITEK®2 N812 and XN33 and ETEST®.

³*K. pneumoniae*, strain MRSN 518712 was deposited as resistant to cefepime, and was found to be sensitive lot 70051104, but showed a MIC of 6 µg/mL (interpreted as intermediately resistant) for lot 70080662 during QC testing.

⁴MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

⁵Also consistent with other *Klebsiella* species

Figure 1: Colony Morphology



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