Certificate of Analysis for NR-55586

Klebsiella pneumoniae, Strain MRSN 672476

Catalog No. NR-55586

This reagent is the tangible property of the U.S. Government.

Product Description:

Klebsiella pneumoniae (K. pneumoniae), strain MRSN 672476 was isolated in 2019 from a human urine sample in North America as part of a global surveillance program. NR-55586 was deposited as a susceptible strain, sensitive to amikacin, ampicillin/sulbactam, aztreonam, cefepime, ceftazidime, ceftazidime/avibactam, ceftolozane/tazobactam, ceftriaxone, ciprofloxacin, ertapenem, gentamicin, imipenem, levofloxacin, meropenem, piperacillin/tazobactam, tetracycline, tigecycline, tobramycin, and trimethoprim/sulfamethoxazole. NR-55586 was produced by inoculation of BEI Resources seed lot 70051610 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inouculum 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: 70081496 **Manufacturing Date: 19FEB2026**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth, mucoid and cream
Motility (wet mount)	Report results	Non-motile
VITEK® MS (MALDI-TOF)	*K. pneumoniae*	*K. pneumoniae* (99.9%)
Antibiotic Susceptibility Profile[1,2]		
Amikacin	Sensitive	Sensitive (≤ 1 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (4 µg/mL)
Aztreonam	Sensitive	Sensitive (≤ 1 µg/mL)
Cefepime	Sensitive	Sensitive (≤ 0.12 µg/mL)
Ceftazidime	Sensitive	Sensitive (≤ 0.5 µg/mL)
Ceftazidime/avibactam	Sensitive	Sensitive (≤ 0.12 µg/mL)
Ceftolozane/tazobactam	Sensitive	Sensitive (≤ 0.25 µg/mL)
Ceftriaxone	Sensitive	Sensitive (≤ 0.25 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.06 µg/mL)
Ertapenem	Sensitive	Sensitive (≤ 0.12 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 µg/mL)
Imipenem	Sensitive	Sensitive (≤ 0.25 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.12 µg/mL)
Meropenem	Sensitive	Sensitive (≤ 0.25 µg/mL)
Piperacillin/tazobactam	Sensitive	Sensitive (≤ 4 µg/mL)
Tetracycline	Sensitive	Sensitive (≤ 1 µg/mL)
Tigecycline	Sensitive	Sensitive (1 µg/mL)[3]
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 20 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	≥ 99% sequence identity to *K. pneumoniae*, strain MRSN 672476 (GenBank: JAGYBZ010000073.1)	99.4% sequence identity to *K. pneumoniae*, strain MRSN 672476 (GenBank: JAGYBZ010000073.1)[4]
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

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TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

[1]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)
[2]Antibiotic susceptibility was tested using a combination of bioMérieux VITEK®2 N812, VITEK®2 XN33 and ETEST®.
[3]MIC Interpretation Guideline: EUCAST Version 8.0 (2018)
[4]Also consistent with other *Klebsiella* species

/Sonia Bjorum Brower/
Sonia Bjorum Brower 20 MAY 2026
Technical Manager or designee, ATCC Federal Solutions

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