

Pseudomonas aeruginosa, Strain MRSN 26263

Catalog No. NR-51601

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Product Description:

Pseudomonas aeruginosa (*P. aeruginosa*), strain MRSN 26263 was isolated in 2014 from a human respiratory sample in the United States as part of a global surveillance program. *P. aeruginosa*, strain MRSN 26263 was deposited as multi-locus sequence type (MLST) ST 3009, sensitive to amikacin, aztreonam, cefepime, gentamicin, imipenem, levofloxacin, meropenem and piperacillin/tazobactam, intermediately resistant to ceftazidime and resistant to ciprofloxacin and tobramycin. NR-51601 was produced by inoculation of BEI Resources seed lot 70025109 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: 70070743

Manufacturing Date: 28AUG2024

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Report results <i>P. aeruginosa</i>	Gram-negative rods Circular, convex, entire, smooth and cream Motile <i>P. aeruginosa</i> (99.9%)
Antibiotic Susceptibility Profile¹ Sensititre™ System ² Amikacin Aztreonam Cefepime Ceftazidime Ciprofloxacin Colistin Doripenem Gentamicin Imipenem Levofloxacin Meropenem Piperacillin/tazobactam Polymyxin B Ticarcillin/clavulanic acid Tobramycin	Intermediate Sensitive Sensitive Sensitive Resistant Sensitive Non-susceptible Resistant Resistant Intermediate Resistant Sensitive Sensitive Intermediate Sensitive	Resistant (48 µg/mL) ³ Resistant (24 µg/mL) ⁴ Intermediate (16 µg/mL) ⁵ Sensitive (1.5 to 8 µg/mL) Resistant (> 2 µg/mL) Sensitive (0.5 µg/mL) Non-susceptible (> 2 µg/mL) Resistant (> 8 µg/mL) Resistant (> 8 µg/mL) Resistant (> 8 µg/mL) Resistant (> 8 µg/mL) ⁶ Resistant (> 8 µg/mL) Resistant (> 256 µg/mL) ⁷ Sensitive (1 µg/mL) Resistant (> 128 µg/mL) ⁸ Intermediate (8 µg/mL) ⁵
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>P. aeruginosa</i> , strain MRSN 26263 (GenBank: RXUL01000092.1)	99.9% sequence identity to <i>P. aeruginosa</i> , strain MRSN 26263 (GenBank: RXUL01000092.1)
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)

²Sensititre™ System Gram Negative GN2F AST Plate, Thermo Scientific™ GN2F

³*P. aeruginosa*, strain MRSN 26263 was deposited as sensitive to amikacin and was found to be intermediately resistant for lot 70025108, but showed a MIC of > 32 µg/mL (interpreted as resistant) for lot 70070743 during QC testing.

⁴*P. aeruginosa*, strain MRSN 26263 was deposited as sensitive to aztreonam and was found to be sensitive for lot 70025108, but showed a MIC of 24 µg/mL (interpreted as resistant) for lot 70070743 during QC testing.

⁵The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

⁶*P. aeruginosa*, strain MRSN 26263 was deposited as sensitive to levofloxacin and was found to be intermediately resistant for lot 70025108, but showed a MIC of > 8 µg/mL (interpreted as resistant) for lot 70070743 during QC testing.

⁷*P. aeruginosa*, strain MRSN 26263 was deposited as sensitive to piperacillin/tazobactam and was found to be sensitive for lot 70025108, but showed a MIC of > 256 µg/mL (interpreted as resistant) for lot 70070743 during QC testing.

⁸*P. aeruginosa*, strain MRSN 26263 was found to be sensitive for ticarcillin/clavulanic acid for lot 70025108, but showed a MIC of > 128 µg/mL (interpreted as resistant) for lot 70070743 during QC testing.

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12 SEP 2025

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