

Pseudomonas aeruginosa, Strain MRSN 369569

Catalog No. NR-51607

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Product Description:

Pseudomonas aeruginosa (*P. aeruginosa*), strain MRSN 369569 was isolated in 2015 from a human blood sample as part of a surveillance program in the United States. *P. aeruginosa*, strain MRSN 369569 was deposited as sensitive to meropenem, amikacin, gentamicin, tobramycin and imipenem, intermediately resistant to piperacillin/tazobactam and resistant to levofloxacin, ceftazidime, cefepime, aztreonam and ciprofloxacin.

Lot: 70025120¹

Manufacturing Date: 08AUG2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) VITEK® 2 (GN card)	Gram-negative rods Report results Report results <i>P. aeruginosa</i> (≥ 89%)	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Motile <i>P. aeruginosa</i> (99%)
Antibiotic Susceptibility Profile³ VITEK® (AST-GN81 Card) Ampicillin Amoxicillin/clavulanic acid Piperacillin/tazobactam Cefazolin Cefoxitin Ceftazidime Ceftriaxone Cefepime Meropenem Amikacin Gentamicin Tobramycin Ciprofloxacin Levofloxacin Tetracycline Nitrofurantoin Trimethoprim/sulfamethoxazole	Report results Report results Intermediate Report results Report results Resistant Report results Resistant Sensitive Sensitive Sensitive Sensitive Resistant Resistant Report results Report results Report results	Resistant (≥ 32 µg/mL) Resistant (≥ 32 µg/mL) Intermediate (32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Intermediate (16 µg/mL) ⁴ Resistant (≥ 64 µg/mL) Sensitive (8 µg/mL) ⁵ Sensitive (0.5 µg/mL) Sensitive (16 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 512µg/mL) ≥320 µg/mL ⁶
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to <i>P. aeruginosa</i> , strain MRSN 369569 (GenBank: RXUC01000132.1)	100% sequence identity to <i>P. aeruginosa</i> , strain MRSN 369569 (GenBank: RXUC01000132.1)
Purity (post-freeze)⁷	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹NR-51607 was produced by inoculation of the depositor 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.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar

³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

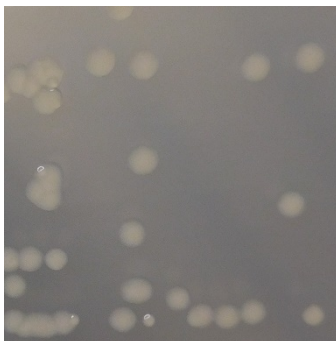
⁴*P. aeruginosa* strain MRSN 369569 was deposited as resistant to ceftazidime. Repeated antibiotic susceptibility testing determined that strain MRSN 358800 is intermediately resistant to ceftazidime.

⁵*P. aeruginosa* strain MRSN 369569 was deposited as resistant to cefepime. Repeated antibiotic susceptibility testing determined that strain MRSN 358800 is sensitive to ceftazidime.

⁶Trimethoprim/sulfamethoxazole MIC interpretive standards are not available for *P. aeruginosa*, however most clinical isolates are resistant to trimethoprim/sulfamethoxazole. For more information, please refer to Köhler, T., et al. "Multidrug Efflux in Intrinsic Resistance to Trimethoprim and Sulfamethoxazole in *Pseudomonas aeruginosa*." *Antimicrob. Agents Chemother.* 40 (1996): 2288-2290. PubMed: 9036831.

⁷Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with and without 5% CO₂ on Tryptic Soy agar.

Figure 1: Colony Morphology



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