

Certificate of Analysis for NR-51604

Pseudomonas aeruginosa, Strain MRSN 346179

Catalog No. NR-51604

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Product Description:

Pseudomonas aeruginosa (P. aeruginosa), strain MRSN 346179 is a human respiratory isolate collected in 2015 as part of a surveillance program in the United States. *P. aeruginosa*, strain MRSN 346179 was deposited as sensitive to amikacin, aztreonam, ceftazidime, ciprofloxacin, cefepime, gentamicin, imipenem, levofloxacin, meropenem, tobramycin and piperacillin/tazobactam.

Lot: 70025114¹ Manufacturing Date: 02AUG2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology ²	Report results	Irregular, low convex, undulate and
, , ,	·	green (Figure 1)
Motility (wet mount)	Report results	Motile
VITEK® 2 (GN card)	P. aeruginosa (≥ 89%)	P. aeruginosa (97%)
Antibiotic Susceptibility Profile ³	, ,	
VITEK® (AST-GN81 Card)		
Ampicillin	Report results	Resistant (≥ 32 µg/mL)
Amoxicillin/Clavulanic Acid	Report results	Resistant (≥ 32 µg/mL)
Piperacillin/Tazobactam	Sensitive	Sensitive (8 µg/mL)
Cefazolin	Report results	Resistant (≥ 64 µg/mL)
Cefoxitin	Report results	Resistant (≥ 64 µg/mL)
Ceftazidime	Sensitive	Sensitive (4 μg/mL)
Ceftriaxone	Report results	Resistant (≥ 64 µg/mL)
Cefepime	Sensitive	Sensitive (2 µg/mL)
Meropenem	Sensitive	Sensitive (0.5 μg/mL)
Amikacin	Sensitive	Sensitive (≤ 2 μg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 μg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 μg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Levofloxacin	Sensitive	Sensitive (0.5 μg/mL)
Tetracycline	Report results	Resistant (≥ 16 µg/mL)
Nitrofurantoin	Report results	Resistant (≥ 512 μg/mL)
Trimethoprim/sulfamethoxazole	Report results	≥ 320 µg/mL ⁴
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	100% sequence identity to
(~ 1410 base pairs)	P. aeruginosa, strain MRSN 346179 (GenBank: RXUF01000011.1)	P. aeruginosa, strain MRSN 346179 (GenBank: RXUF01000011.1)
Purity (post-freeze) ⁵	Growth consistent with expected	Growth consistent with expected colony
	colony morphology	morphology
Viability (post-freeze) ²	Growth	Growth

¹NR-51604 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.

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

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

⁴Trimethoprim/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.*" <u>Antimicrob. Agents Chemother.</u> 40 (1996): 2288-2290. PubMed: 9036831.

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



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Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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