

Certificate of Analysis for NR-51589

Pseudomonas aeruginosa, Strain MRSN 18562

Catalog No. NR-51589

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

Product Description:

Pseudomonas aeruginosa (P. aeruginosa), strain MRSN 18562 was isolated in 2013 from a human respiratory specimen as part of a surveillance program in the United States. *P. aeruginosa*, strain MRSN 18562 was deposited as sensitive to amikacin, cefepime, ceftazidime, ciprofloxacin, gentamicin, levofloxacin, piperacillin/tazobactam and tobramycin, intermediately resistant to aztreonam and resistant to imipenem and meropenem.

Lot: 70025084¹ Manufacturing Date: 26JUL2019

SPECIFICATIONS	RESULTS
Gram-negative rods	Gram-negative rods
Report results	Circular, low convex, entire, smooth
	and cream (Figure 1)
Report results	Motile
P. aeruginosa (≥ 89%)	P. aeruginosa (98%)
Report results	Resistant (≥ 32 µg/mL)
Report results	Resistant (≥ 32 µg/mL)
Sensitive	Sensitive (8 µg/mL)
Report results	Resistant (≥ 64 µg/mL)
Report results	Resistant (≥ 64 µg/mL)
Sensitive	Sensitive (2 µg/mL)
Report results	Resistant (16 µg/mL)
Sensitive	Sensitive (4 µg/mL)
Resistant	Resistant (8 µg/mL)
Sensitive	Sensitive (8 µg/mL)
Sensitive	Sensitive (4 µg/mL)
Sensitive	Sensitive (≤ 1 µg/mL)
Sensitive	Sensitive (≤ 0.25 µg/mL)
Sensitive	Sensitive (1 µg/mL)
Report results	Resistant (≥ 16 µg/mL)
Report results	Resistant (≥ 512 µg/mL)
Report results	80 μg/mL ⁴
≥ 99% sequence identity to	100% sequence identity to
P. aeruginosa, strain MRSN 18562	P. aeruginosa, strain MRSN 18562
(GenBank: RXVI01000051.1)	(GenBank: RXVI01000051.1)
Growth consistent with expected	Growth consistent with expected
colony morphology	colony morphology
Growth	Growth
	Report results P. aeruginosa (≥ 89%) Report results Report results Report results Sensitive Report results Sensitive Report results Sensitive Report results Sensitive Resistant Sensitive Report results ≥ 99% sequence identity to P. aeruginosa, strain MRSN 18562 (GenBank: RXVI01000051.1) Growth consistent with expected colony morphology

¹NR-51589 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.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

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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)

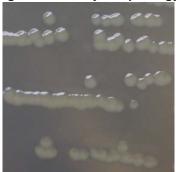
⁴Trimethoprim/sulfamethoxazole MIC interpretive standards are not available for *P. aeruginosa*, however most clinical isolates are resistant to trimethoprim/sulfamethoxazole. For more information, please refer to Köhler, T., et al. "Multidrug Efflux in Intrinsic Resistance to Trimethoprim and Sulfamethoxazole 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 20 JAN 2020

Program Manager or designee, ATCC Federal Solutions

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Tel: 800-359-7370

Fax: 703-365-2898