

***Pseudomonas aeruginosa*, Strain PA14**

**Catalog No. NR-50573**

**Product Description:** *Pseudomonas aeruginosa* (*P. aeruginosa*), strain PA14 was isolated in the early 1970s from blood of a burn patient at Mercy Hospital in Pittsburgh, Pennsylvania, USA.

**Lot<sup>1</sup>: 70023127**

**Manufacturing Date: 14FEB2019**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology <sup>2</sup>  Motility (wet mount) VITEK <sup>®</sup> 2 Compact (GN card) VITEK <sup>®</sup> MS (MALDI-TOF)	Gram-negative rods Report results  Report results <i>P. aeruginosa</i> (≥ 89%) <i>P. aeruginosa</i>	Gram-negative rods Circular, slight peaked, undulate, smooth and green (Figure 1) Motile <i>P. aeruginosa</i> (97%) <i>P. aeruginosa</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>3</sup></b> VITEK <sup>®</sup> (AST-GN81 Card) Ampicillin <sup>4</sup> Amoxicillin/Clavulanic Acid <sup>4</sup> Piperacillin/Tazobactam Cefazolin <sup>4</sup> Cefoxitin <sup>4</sup> Ceftazidime Ceftriaxone <sup>4</sup> Cefepime Meropenem Amikacin Gentamicin Tobramycin Ciprofloxacin Levofloxacin Tetracycline <sup>4</sup> Nitrofurantoin <sup>4</sup> Trimethoprim/Sulfamethoxazole <sup>4</sup> Ettest <sup>®</sup> antibiotic test strips <sup>5</sup> Trimethoprim sulphonamide <sup>4</sup> Gentamicin Streptomycin <sup>4</sup> Ofloxacin Rifampicin <sup>4</sup>	≥ 32 µg/mL ≥ 32 µg/mL Sensitive ≥ 64 µg/mL ≥ 64 µg/mL Sensitive 32 µg/mL Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive 8 µg/mL 512 µg/mL 80 µg/mL  4 µg/mL Sensitive Report results Sensitive 32 µg/mL	≥ 32 µg/mL ≥ 32 µg/mL Sensitive (8 µg/mL) ≥ 64 µg/mL ≥ 64 µg/mL Sensitive (2 µg/mL) 32 µg/mL Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 2 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (0.25 to 0.5 µg/mL) 8 µg/mL ≥ 512 µg/mL 80 µg/mL  4 µg/mL Sensitive (1 µg/mL) 12 µg/mL Sensitive (0.75 µg/mL) 32 µg/mL
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	≥ 99% sequence identity to <i>P. aeruginosa</i> , strain PA14 (GenBank: ASWV01000024.1)	99.9% sequence identity to <i>P. aeruginosa</i> , strain PA14 (GenBank: ASWV01000024.1)
<b>Purity (post-freeze)<sup>6</sup></b>	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)<sup>2</sup></b>	Growth	Growth

<sup>1</sup>NR-50573 lot 70023127 was produced by inoculation of BEI Resources NRS-50573 lot 7002166 into Nutrient broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Nutrient agar kolles, which were grown for 2 days at 37°C in an aerobic atmosphere to produce this lot.

<sup>2</sup>1 day at 37°C in an aerobic atmosphere on Nutrient agar

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

<sup>4</sup>No Clinical & Laboratory Standards Institute (CLSI) interpretations exist for this organism/antibiotic combination at this time. For any given antibiotic, a result that is within one doubling dilution of specification, as determined by the previous lot, is considered passing.

<sup>5</sup>1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

<sup>6</sup>Purity of this lot was assessed for 8 days on Nutrient agar at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>.

**Figure 1: Colony Morphology**



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Program Manager or designee, ATCC Federal Solutions

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