

Acinetobacter baumannii, Strain MRSN 959

Catalog No. NR-52151

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 959 was isolated in 2008 from a human wound in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 959 was deposited as sensitive to colistin and tetracycline and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem, tobramycin and ampicillin/sulbactam. NR-52151 lot 70038247 was produced by inoculation of the deposited 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70038247

Manufacturing Date: 26AUG2020

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Growth at 44°C ± 2°C ¹ 1 day in an aerobic atmosphere on Tryptic Soy agar Motility BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere VITEK® GN card VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Growth Report results <i>A. baumannii</i> (≥ 89%) <i>A. baumannii</i>	Gram-negative rods Circular, raised, entire, smooth and cream (Figure 1) Growth Motile <i>A. baumannii</i> (99%) <i>A. baumannii</i> (99.9%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Resistant Resistant Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Sensitive	Resistant (> 256 µg/mL) Resistant (256 µg/mL) Resistant (> 256 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 8 µg/mL) Resistant (12 µg/mL) Resistant (≥ 8 µg/mL) Resistant (> 4 µg/mL) Resistant (32 µg/mL) Intermediate (6 to 8 µg/mL) ⁴
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 959 (GenBank: VHDS01000075.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 959 (GenBank: VHDS01000075.1)

TEST	SPECIFICATIONS	RESULTS
Purity 8 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

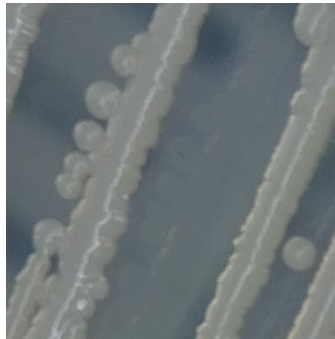
¹Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.

²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

³Antibiotic susceptibility was tested using a combination of VITEK[®] 2 GN82, Sensititre™ GNX2F AST and E-test strips.

⁴Susceptibility results for this antibiotic are within one doubling dilution of specification, which is considered an equivalent result.

Figure 1: Colony Morphology



/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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