

Acinetobacter baumannii, Strain MRSN 489678

Catalog No. NR-52247

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 489678 was isolated in 2014 from a human wound sample in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 489678 was deposited as multi-locus sequence type (MLST) ST 19, sensitive to amikacin, colistin, cefepime, imipenem, meropenem, ampicillin/sulbactam and tetracycline, intermediately resistant to tobramycin and resistant to ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin and trimethoprim/sulfamethoxazole. NR-52247 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: 70041187

Manufacturing Date: 13JAN2021

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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 Remel™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Growth Report results <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, smooth and cream Growth Non-motile <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	Sensitive Sensitive Sensitive Resistant Resistant Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Intermediate Sensitive	Sensitive (≤ 4 µg/mL) Sensitive (1.5 µg/mL) Sensitive (≤ 2 µg/mL) Resistant (> 32 µg/mL) Resistant (48 µg/mL) Resistant (≥ 2 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (24 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (8 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (> 4 µg/mL) Intermediate (6 to 8 µg/mL) Resistant (≥ 256 µg/mL) ⁴
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 489678 (GenBank: VHEN01000084.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 489678 (GenBank: VHEN01000084.1)

Certificate of Analysis for NR-52247

TEST	SPECIFICATIONS	RESULTS
Purity 7 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.

⁴*A. baumannii*, strain MRSN 489678 was deposited as being sensitive to tetracycline. Repeated antibiotic susceptibility testing determined that for strain MRSN 489678, the tetracycline MIC is ≥ 256 μ g per mL, which is interpreted as resistant. Testing was performed in duplicate.

/Heather Couch/

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Program Manager or designee, ATCC Federal Solutions

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