

Acinetobacter baumannii, Strain MRSN 11669

Catalog No. NR-52187

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 11669 was isolated in 2009 from a human urine sample in the United States as part of a global surveillance program. NR-52187 was deposited as multi-locus sequence type (MLST) ST 16, resistant to cefepime, ceftazidime, ciprofloxacin, gentamicin, levofloxacin and trimethoprim/sulfamethoxazole, sensitive to amikacin, colistin, imipenem, meropenem, tobramycin, ampicillin/sulbactam and tetracycline and intermediately resistant to ceftriaxone. NR-52187 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: 70040794

Manufacturing Date: 09DEC2020

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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 35°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 (Figure 1) Growth 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 Resistant Intermediate Resistant Resistant Sensitive Resistant Sensitive Sensitive Resistant Sensitive Resistant Sensitive Sensitive	Sensitive (16 µg/mL) Sensitive (4 µg/mL) Intermediate (12 to 16 µg/mL) ⁴ Intermediate (32 µg/mL) Intermediate (16 µg/mL) ⁴ Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (8 to 16 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (4 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (> 4 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (16 to 24 µg/mL) ⁵
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 11669 (GenBank: VHHJ01000060.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 11669 (GenBank: VHHJ01000060.1)
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

TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

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

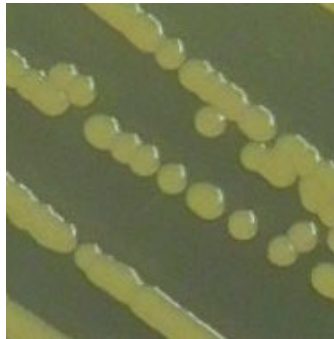
²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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

⁴The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

⁵*A. baumannii*, strain MRSN 11669 was deposited as sensitive to tetracycline but showed a MIC of 16 to 24 µg per mL (interpreted as resistant) for tetracycline during QC testing. Testing was performed in quadruplicate.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

31 AUG 2021

Program Manager or designee, ATCC Federal Solutions

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