

Acinetobacter baumannii, Strain MRSN 15049

Catalog No. NR-52194

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 15049 was isolated in 2013 from a respiratory specimen in Asia as part of a global surveillance program. *A. baumannii*, strain MRSN 15049 was deposited as sensitive to colistin and tobramycin, resistant to amikacin, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole and tetracycline, and intermediately resistant to ampicillin/sulbactam. NR-52194 lot 70039045 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: 70039045

Manufacturing Date: 23SEP2020

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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 (Figure 1) 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	Resistant Intermediate Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Sensitive Resistant	Resistant (≥ 256 µg/mL) Intermediate (16 µg/mL) Resistant (≥ 256 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (0.5 to 1 µg/mL) Sensitive (4 µg/mL) ⁴ Resistant (8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 1µg/mL) Resistant (≥ 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 15049 (GenBank: VHGW01000106.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 15049 (GenBank: VHGW01000106.1)

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 15049 was deposited as resistant to gentamicin, but showed a MIC of 4 µg/mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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