

Acinetobacter baumannii, Strain MRSN 1187

Catalog No. NR-52156

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 1187 was isolated in 2010 from a human wound in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 1187 was deposited as sensitive to colistin, imipenem, meropenem, and tetracycline and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, gentamicin, trimethoprim/sulfamethoxazole, levofloxacin, tobramycin, and ampicillin/sulbactam, with intermediate resistance to cefepime. NR-52156 lot 70051443 was produced by inoculation of BEI Resources seed lot 70039387 into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy broth 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: 70051443

Manufacturing Date: 24MAR2022

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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 Resistant Intermediate Resistant Resistant Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Resistant Sensitive	Resistant (96 µg/mL) Intermediate (12 µg/mL) ⁴ Intermediate (16 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) ⁵ Resistant (≥ 16 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (1 µg/mL) Resistant (≥ 320 µg/mL) Resistant (32 µg/mL) Intermediate (8 µg/mL) ⁶
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 1187 (GenBank: VVHC01000094.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 1187 (GenBank: VVHC01000094.1)
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)

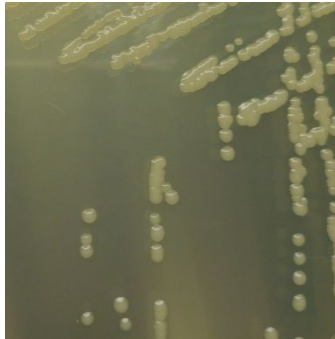
³Antibiotic susceptibility was tested using a combination of VITEK[®]2 GN81, and E-test strips.

⁴*A. baumannii*, strain MRSN 1187 was deposited as resistant to ampicillin/sulbactam but showed a MIC of 12 µg/mL (interpreted as intermediate) for ampicillin/sulbactam during QC testing. Testing was performed in duplicate.

⁵Testing was performed on BEI Resources seed lot 70039387.

⁶The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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