

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 70039386 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: 70039386

Manufacturing Date: 24SEP2020

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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 Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Resistant Sensitive | Resistant (128 µg/mL) Sensitive (8 µg/mL) ⁴ Intermediate (12 to 16 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (> 4 µg/mL) Sensitive to Intermediate (2 to 3 µg/mL) Resistant (> 4 µg/mL) Resistant (64 µg/mL) Resistant (> 256 µg/mL) ⁵ |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1480 base pairs) | ≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 1187 (GenBank: VHH01000094.1) | 99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 1187 (GenBank: VHH01000094.1) |
| Purity 12 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.

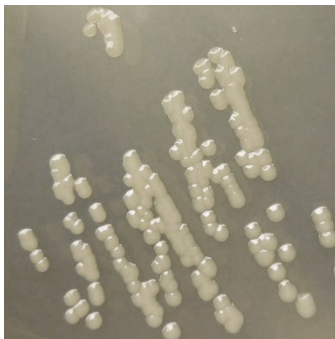
²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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

⁴*A. baumannii*, strain MRSN 1187 was deposited as resistant to ampicillin/sulbactam but showed a MIC of 8 µg/mL (interpreted as sensitive) for ampicillin/sulbactam during QC testing. Testing was performed in duplicate.

⁵*A. baumannii*, strain MRSN 1187 was deposited as sensitive to tetracycline but showed a MIC of > 256 µg/mL (interpreted as resistant) for tetracycline during QC testing. Testing was performed in quadruplicate.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch

Program Manager or designee, ATCC Federal Solutions

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