

Acinetobacter baumannii, Strain MRSN 1196

Catalog No. NR-52157

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 1196 was isolated in 2010 from a human wound sample in the United States as part of a global surveillance program. NR-52157 was deposited as multi-locus sequence type (MLST) ST 108, resistant to cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin and trimethoprim/sulfamethoxazole, sensitive to ampicillin/sulbactam, colistin, imipenem, meropenem and tetracycline and intermediately resistant to amikacin and tobramycin. NR-52157 was produced by inoculation of BEI Resources seed lot 70039389 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: 70056284

Manufacturing Date: 20OCT2022

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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 Non-Motile ² <i>A. baumannii</i> (99.9%)
Antibiotic Susceptibility Profile^{3,4} Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Colistin ⁵ Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Intermediate Sensitive Resistant Resistant Resistant Resistant Resistant Sensitive Sensitive Resistant Sensitive Resistant Resistant Intermediate Sensitive	Intermediate (32 µg/mL) Sensitive (2 µg/mL) Resistant (32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (24 µg/mL) Sensitive (1.5 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 320 µg/mL) Sensitive (4 µg/mL) ⁶ Resistant (≥ 256 µg/mL) ⁷
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 1196 (GenBank: VHHB01000067.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 1196 (GenBank: VHHB01000067.1)
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.

²BEI Resources seed lot 70039388 was motile.

³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

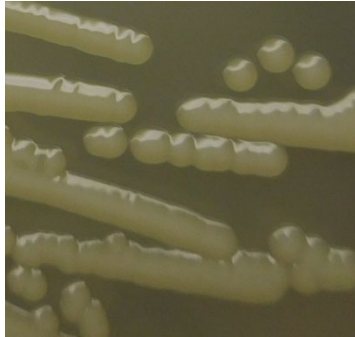
⁴Antibiotic susceptibility was tested using a combination of VITEK®2 GN82, Sensititre GNX2F AST and E-test strips.

⁵Testing was performed on BEI Resources seed lot 70039388

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

⁷*A. baumannii*, strain MRSN 1196 was deposited as sensitive to tetracycline but showed a MIC of $\geq 256 \mu\text{g per mL}$ (interpreted as resistant) for tetracycline during QC testing. Testing was performed in duplicate.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

Sonia Bjorum Brower

28 SEP 2023

Technical Manager or designee, ATCC Federal Solutions

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