

Acinetobacter baumannii, Strain MRSN 22112

Catalog No. NR-52206

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 22112 was isolated in 2013 from a human blood sample in South America as part of a global surveillance program. *A. baumannii*, strain MRSN 22112 was deposited as sensitive to ampicillin/sulbactam, ciprofloxacin, colistin and levofloxacin, intermediately resistant to amikacin and tobramycin, and resistant to ceftazidime, ceftriaxone, cefepime, gentamicin, imipenem, tetracycline, meropenem and trimethoprim/sulfamethoxazole. NR-52206 was produced by inoculation of BEI Resources seed lot 70038248 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: 70051022

Manufacturing Date: 10MAR2022

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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 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 Tobramycin Tetracycline Trimethoprim/sulfamethoxazole	Intermediate Sensitive Resistant Resistant Resistant Sensitive Sensitive Resistant Resistant Sensitive Resistant Intermediate Resistant Resistant	Resistant (≥ 256 µg/mL)⁴ Sensitive (3 µg/mL) Resistant (48 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) ⁵ Resistant (64 to 96 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (2 µg/mL)⁶ Sensitive (4 µg/mL) ⁷ Resistant (≥ 16 µg/mL) Resistant (≥ 320 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 22112 (GenBank: VHGJ01000149.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 22112 (GenBank: VHGJ01000149.1)
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.

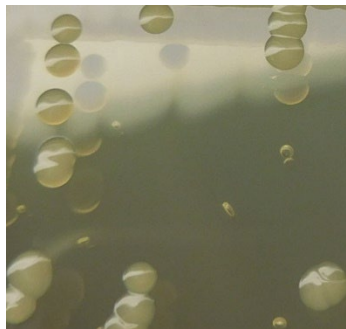
⁴*A. baumannii*, strain MRSN 22112 was deposited as intermediate to amikacin, but showed a MIC of 256 µg per mL (interpreted as resistant) for lot 70051022 during QC testing.

⁵Testing was performed on BEI Resources seed lot 70038248.

⁶*A. baumannii*, strain MRSN 22112 was deposited as resistant to meropenem, but showed a MIC of 2 µg per mL (interpreted as sensitive) for lot 70051022 during QC testing.

⁷The 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/

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