

Acinetobacter baumannii, Strain MRSN 7251

Catalog No. NR-52175

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 7251 was isolated in 2004 from a human wound sample in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 7251 was deposited as multi-locus sequence type (MLST) ST 32, sensitive to amikacin, colistin, imipenem, levofloxacin, meropenem and trimethoprim/sulfamethoxazole and resistant to cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, ampicillin/sulbactam, tetracycline and tobramycin. NR-52175 was produced by inoculation of BEI Resources seed lot 70040787 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: 70053514

Manufacturing Date: 16JAN2022

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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 Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Resistant	Intermediate (32 µg/mL) ⁴ Resistant (96 µg/mL) Resistant (≥ 256 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (96 µg/mL) Sensitive (1 µg/mL) Sensitive (2 µg/mL) Sensitive (0.5 µg/mL) Sensitive (≤ 20 µg/mL) Resistant (≥ 256µg/mL) Resistant (≥ 16 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 7251 (GenBank: VHE01000109.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 7251 (GenBank: VHE01000109.1)
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
Viability	Growth	Growth

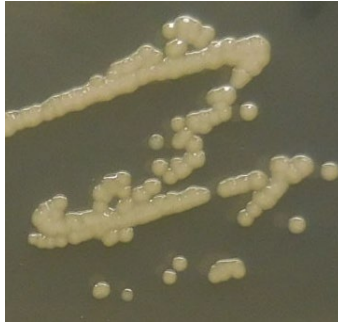
¹Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.

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.

⁴The 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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