

Acinetobacter baumannii, Strain MRSN 480622

Catalog No. NR-52245

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 480622 was isolated in 2017 from a human urine sample in Asia as part of a global surveillance program. *A. baumannii*, strain MRSN 480622 was deposited as sensitive to colistin and trimethoprim/sulfamethoxazole and resistant to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, tetracycline and tobramycin. NR-52245 was produced by inoculation of BEI seed lot 70039383 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: 70061807

Manufacturing Date: 10AUG2023

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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 Intermediate Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Sensitive Resistant Resistant	Resistant (256 µg/mL) Intermediate (16 µg/mL) Resistant (96 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) ⁴ Resistant (≥ 16 µg/mL) Resistant (256 µg/mL) Resistant (8 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 20 µg/mL) Resistant (≥ 16 µg/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 480622 (GenBank: VHEP01000072.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 480622 (GenBank: VHEP01000072.1)
Purity 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	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.

⁴Testing was performed on BEI Resources seed lot 70039383.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
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10 OCT 2023

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