

Acinetobacter baumannii, Strain MRSN 480561

Catalog No. NR-52244

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Product Description:

Acinetobacter baumannii (*A. baumannii*), MRSN 480561 was isolated 2017 from a human respiratory sample in Asia as part of a global surveillance program. *A. baumannii*, strain MRSN 480561 was deposited as multi-locus sequence type (MLST) ST 25, sensitive to colistin and tetracycline and resistant to amikacin, ampicillin/sulbactam, ceftazidime, ceftriaxone, cefepime, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin and trimethoprim/sulfamethoxazole. NR-52244 was produced by inoculation of BEI Resources seed lot 70039381 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: 70061806

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 Hardy Diagnostics™ Motility Test Medium with 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 Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Sensitive	Resistant (> 256 µg/mL) Resistant (32 µg/mL) Resistant (> 256 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) ⁴ Resistant (≥ 16 µg/mL) Resistant (16 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 320 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (2 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1450 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 480561 (GenBank: VHEQ01000106.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 480561 (GenBank: VHEQ01000106.1)

TEST	SPECIFICATIONS	RESULTS
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
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 70039381.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
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