

Acinetobacter baumannii, Strain MRSN 11224

Catalog No. NR-52185

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 11224 was isolated in 2012 from a human wound in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 11224 was deposited as sensitive to colistin and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem, tobramycin, tetracycline and ampicillin/sulbactam. NR-52185 was produced by inoculation of BEI Resources seed lot 70038549 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: 70055203

Manufacturing Date: 26AUG2022

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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 BD BBL™ 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 Growth Motile <i>A. baumannii</i> (99.9%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftazidime Ceftriaxone Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Tetracycline Tobramycin Trimethoprim/sulfamethoxazole	Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant	Sensitive (8 µg/mL) ⁴ Resistant (32 µg/mL) Resistant (128 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Intermediate (6 µg/mL) ⁵ Resistant (≥ 320 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1380 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 11224 (GenBank: VHHL01000097.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 11224 (GenBank: VHHL01000097.1)
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.

⁴*A. baumannii*, strain MRSN 11224 was deposited as resistant to amikacin, but showed a MIC of 8 µg/mL (interpreted as sensitive) for amikacin during QC testing. Testing was performed in duplicate.

⁵*A. baumannii*, strain MRSN 11224 was deposited as resistant to tobramycin, but showed a MIC of 6 µg/mL (interpreted as intermediately resistant) for tobramycin during QC testing. Testing was performed in duplicate.

/Sonia Bjorum Brower/

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19 SEP 2023

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