

Acinetobacter baumannii, Strain MRSN 2821

Catalog No. NR-52160

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 2821 was isolated in 2009 from a human wound sample in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 2821 was deposited as multi-locus sequence type (MLST) ST 537, sensitive to amikacin, ampicillin-sulbactam, cefepime, ceftazidime, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin and trimethoprim/sulfamethoxazole and intermediately resistant to ceftriaxone and tetracycline. NR-52160 was produced by inoculation of BEI Resources seed lot 70041721 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: 70060465

Manufacturing Date: 05MAY2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Growth at 45°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 Motile <i>A. baumannii</i> (99.8%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Sensitive Sensitive Intermediate Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Intermediate	Sensitive (1.5 µg/mL) Sensitive (1.5 µg/mL) Sensitive (2 µg/mL) Intermediate (16 µg/mL) Sensitive (4 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (0.38 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 20 µg/mL) Sensitive (≤ 1 µg/mL) Intermediate (12 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 830 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 2821 (GenBank: VHGE01000050.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 2821 (GenBank: VHGE01000050.1)
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 GN81 and E-test strips.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
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