

Acinetobacter baumannii, Strain MRSN 3360

Catalog No. NR-52161

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 3360 was isolated in 2011 from a human blood sample in the United States as part of a global surveillance program. NR-52161 was deposited as multi-locus sequence type (MLST) ST 499, sensitive to amikacin, ceftazidime, colistin and ceftriaxone, intermediately resistant to tobramycin and tetracycline and resistant to ciprofloxacin, cefepime, gentamicin, imipenem, levofloxacin, meropenem, ampicillin/sulbactam and trimethoprim/sulfamethoxazole. NR-52161 was produced by inoculation of the deposited material 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: 70038551

Manufacturing Date: 26AUG2020

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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 35°C in an aerobic atmosphere VITEK® MS (MALDI-TOF) VITEK® 2 GN card	Gram-negative rods Report results Growth Report results <i>A. baumannii</i> <i>A. baumannii</i> (≥ 89%)	Gram-negative rods Circular, raised, entire, smooth and cream (Figure 1) Growth Non-motile <i>A. baumannii</i> (99.9%) <i>A. baumannii</i> (99%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Resistant Resistant Sensitive Sensitive Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Intermediate Intermediate	Sensitive (≤ 4 µg/mL) Intermediate (12 µg/mL)⁴ Resistant (≥ 32 µg/mL) Sensitive (8 µg/mL) Sensitive (4 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 8 µg/mL) Resistant (> 8 µg/mL) Resistant (> 8 µg/mL) Resistant (> 4 µg/mL) Inconclusive⁵ Resistant (256 µg/mL)⁶
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 3360 (GenBank: VHEZ01000039.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 3360 (GenBank: VHEZ01000039.1)

TEST	SPECIFICATIONS	RESULTS
Purity 8 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 GN82, Sensititre GNX2F AST and E-test strips.

⁴*A. baumannii*, strain MRSN 3360 was deposited as resistant to ampicillin/sulbactam but showed a MIC of 12 µg per mL (interpreted as intermediately resistant) for ampicillin/sulbactam during QC testing. Testing was performed in quadruplicate.

⁵*A. baumannii*, strain MRSN 3360 was deposited as being intermediate to tobramycin. Antibiotic susceptibility testing performed in quadruplicate determined that for strain MRSN 3360, the tobramycin MICs are 2 µg per mL, 3 µg per mL, 6 µg per mL and 8 µg per mL, which are interpreted as sensitive, sensitive, intermediate and intermediate, respectively.

⁶*A. baumannii*, strain MRSN 3360 was deposited as intermediately resistant to tetracycline but showed a MIC of 256 µg per mL (interpreted as resistant) for tetracycline during QC testing. Testing was performed in quadruplicate.

Figure 1: Colony Morphology



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