

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 lot 70058390 was produced by inoculation of BEI Resources seed lot 70038544 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: 70058390

Manufacturing Date: 27JAN2023

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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 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 Growth Non-motile <i>A. baumannii</i> (99.9%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Intermediate Resistant Sensitive Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Intermediate Resistant	Sensitive (3 µg/mL) Sensitive (4 µg/mL) ⁴ Resistant (32 µg/mL) Intermediate (16 µg/mL) ⁵ Sensitive (3 µg/mL) Resistant (≥ 4 µg/mL) Resistant (16 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 320 µg/mL) Sensitive (2 to 3 µg/mL) ⁶ Resistant (48 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 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 (post-freeze) 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 (post-freeze)	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 3360 was deposited as resistant to ampicillin/sulbactam and was found to be intermediate in the previous lot but showed a MIC of 4 µg/mL (interpreted as sensitive) during QC testing. Testing was performed in triplicate.

⁵The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

⁶*A. baumannii*, strain MRSN 3360 was deposited as intermediately resistant to tobramycin but showed a MIC of 2 to 3 µg/mL (interpreted as sensitive) for tobramycin during QC testing. Testing was performed in duplicate.

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06 JUN 2023

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