

Acinetobacter baumannii, Strain MRSN 1551

Catalog No. NR-52159

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 1551 was isolated in 2010 from a human specimen in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 1551 was deposited as multi-locus sequence type (MLST) ST 10, sensitive to amikacin, ceftazidime, colistin, cefepime, imipenem, levofloxacin, meropenem, ampicillin/sulbactam and tobramycin, resistant to ciprofloxacin, trimethoprim/sulfamethoxazole and tetracycline and intermediately resistant to ceftriaxone and gentamicin. NR-52159 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: 70040776

Manufacturing Date: 09DEC2020

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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 Remel™ 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 (Figure 1) Growth 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	Sensitive Sensitive Sensitive Intermediate Sensitive Resistant Sensitive Intermediate Sensitive Sensitive Sensitive Sensitive Resistant Sensitive Resistant	Sensitive (≤ 4 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 2 µg/mL) Intermediate (≥ 32 µg/mL) Sensitive (8 µg/mL) Intermediate (2 µg/mL) ⁴ Sensitive (≤ 0.25 µg/mL) Sensitive (3 µg/mL)⁵ Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 1551 (GenBank: VHQQ01000056.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 1551 (GenBank: VHQQ01000056.1)
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

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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 GN82, Sensititre GNX2F AST and E-test strips.

⁴The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

⁵*A. baumannii*, strain MRSN 1551 was deposited as being intermediately resistant to gentamicin. Antibiotic susceptibility testing determined that for strain MRSN 1551, the gentamicin MIC is 3 µg per mL, which is interpreted as sensitive. Testing was performed in duplicate.

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch

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