

Certificate of Analysis for NR-52168

Acinetobacter baumannii, Strain MRSN 6541

Catalog No. NR-52168

This reagent is the tangible property of the U.S. Government.

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 6541 was isolated in 2012 from a human wound in the United States as part of a global surveillance program. A. baumannii, strain MRSN 6541 was deposited as sensitive to amikacin, ceftazidime, colistin, gentamicin, tobramycin and tetracycline and resistant to ciprofloxacin, cefepime, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole and ampicillin/sulbactam, with intermediate resistance to ceftriaxone. NR-52168 lot 70040778 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: 70040778 Manufacturing Date: 11DEC2020

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Growth at 44°C ± 2°C¹ 1 day in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth
Motility Remel™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Report results	Motile
VITEK [®] GN card	A. baumannii complex	A. baumannii complex ²
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{3,4}		
Amikacin	Sensitive	Sensitive (≤ 4 µg/mL)
Ampicillin/sulbactam	Resistant	Intermediate (12 µg/mL) ⁵
Cefepime	Resistant	Resistant (≥ 16 µg/mL)
Ceftriaxone	Intermediate	Resistant (≥ 16 µg/mL) ⁶
Ceftazidime	Sensitive	Intermediate (16 µg/mL) ⁵
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 µg/mL)
Imipenem	Resistant	Resistant (> 8 µg/mL)
Levofloxacin	Resistant	Resistant (> 8 µg/mL)
Meropenem	Resistant	Resistant (>8 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 4 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Sensitive	Intermediate (8 to 12 µg/mL) ⁵
Genotypic Analysis	≥ 99% sequence identity to	99.9% sequence identity to
Sequencing of 16S ribosomal RNA gene (~1470 base pairs)	A. baumannii, strain MRSN 6541 (GenBank: VHEK01000095.1)	A. baumannii, strain MRSN 6541 (GenBank: VHEK01000095.1)

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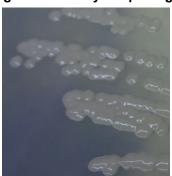


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TEST	SPECIFICATIONS	RESULTS
Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

¹Growth at 44°C differentiates A. baumannii from A. calcoaceticus and A. pittii, which do not grow at 44°C.

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch 20 DEC 2021

Program Manager or designee, ATCC Federal Solutions

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²VITEK® GN card was used to confirm to genus.

³Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

⁴Antibiotic susceptibility was tested using a combination of VITEK2 GN82, Sensititre GNX2F AST and E-test strips.

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

⁶A. baumannii, strain MRSN 6541 was deposited as intermediate to ceftriaxone but showed a MIC of ≥ 16 μg/mL (interpreted as resistant) for ceftriaxone during QC testing. Testing was performed in duplicate.