

Certificate of Analysis for NR-52169

Acinetobacter baumannii, Strain MRSN 7067

Catalog No. NR-52169

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 7067 was isolated in 2003 from a human blood sample in the USA as part of a global surveillance program. A. baumannii, strain MRSN 7067 was deposited as multi-locus sequence type (MLST) ST 81, sensitive to amikacin, colistin, imipenem, meropenem and ampicillin/sulbactam, intermediately resistant to cefepime and resistant to ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin, tetracycline, tobramycin and trimethoprim/sulfamethoxazole. NR-52169 was produced by inoculation of BEI Resources seed lot 70040781 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: 70053513 Manufacturing Date: 16JUN2022

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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°C ¹ 1 day in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth
Motility	Report results	Non-motile ²
BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Troport Todalio	Tron mode
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{3,4}		
Amikacin	Sensitive	Sensitive (16 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (4 μg/mL)
Cefepime	Intermediate	Intermediate (16 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Sensitive	Intermediate (3 to 4 µg/mL) ⁵
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Sensitive	Sensitive (0.5 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Tobramycin	Sensitive	Sensitive (4 μg/mL) ⁶
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to A. baumannii, strain MRSN 7067 (GenBank: VHEJ01000075.1)	100% sequence identity to A. baumannii, strain MRSN 7067 (GenBank: VHEJ01000075.1)
Purity	Growth consistent with expected	Growth consistent with expected
7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar	colony morphology	colony morphology

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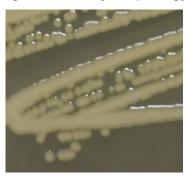


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TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

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

Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

12 APR 2023

Technical Manager or designee, ATCC Federal Solutions

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²BEI Resources lot 70040780 was motile.

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

⁴Antibiotic susceptibility was tested using a combination of VITEK®2 GN81 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 7067 was deposited resistant to tobramycin, but showed a MIC of 4 μg/mL (interpreted as sensitive) for lot 70040780 during QC testing.