

Certificate of Analysis for NR-52176

Acinetobacter baumannii, Strain MRSN 7431

Catalog No. NR-52176

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Product Description:

Acinetobacter baumannii (A. baumannii), MRSN 7431 was isolated in 2005 from a human respiratory sample in the United States as part of a global surveillance program. A. baumannii, strain MRSN 7431 was deposited as multi-locus sequence type (MLST) ST 2, sensitive to amikacin, ampicillin/sulbactam, colistin, imipenem, meropenem and tobramycin, intermediately resistant to ceftazidime and resistant to cefepime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin, trimethoprim/sulfamethoxazole and tetracycline. NR-52176 was produced by inoculation of BEI Resources seed lot 70040789 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: 70060467 Manufacturing Date: 03MAY2023

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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	Growth	Growth
1 day in an aerobic atmosphere on Tryptic		
Soy agar		
Motility	Report results	Non-motile
Hardy Diagnostics™ Motility Test Medium		
w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere		
•	A havenanii	A havemannii (00 00)
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{2,3}	Consitius	Consisting (2 mg/ml)
Amikacin	Sensitive	Sensitive (3 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1.5 µg/mL)
Cefepime	Resistant	Resistant (> 256 μg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Intermediate	Resistant (48 to 64 μg/mL) ⁴
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 μg/mL) ⁵
Imipenem	Sensitive	Sensitive (0.75 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Sensitive	Sensitive (1 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	100% sequence identity to
(~ 1480 base pairs)	A. baumannii, strain MRSN 7431	A. baumannii, strain MRSN 7431
	(GenBank: VHEC01000098.1)	(GenBank: VHEC01000098.1)
Purity	Growth consistent with expected	Growth consistent with expected
7 days at 37°C in an aerobic atmosphere with and	colony morphology	colony morphology
without 5% CO ₂ on Tryptic Soy agar		

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



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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

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Technical Manager or designee, ATCC Federal Solutions

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E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

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.

⁴A. baumannii, strain MRSN 7431 was deposited as intermediately resistant to ceftazidime, but showed MICs of 48 and 64 μg/mL (interpreted as resistant) for this antibiotic during QC testing. Testing was performed in duplicate.

⁵A. baumannii, strain MRSN 7431 was deposited as resistant to gentamicin, but showed a MIC of ≤ 1 μg per mL (interpreted as sensitive) for lot 70040788 during QC testing.