

Certificate of Analysis for NR-52160

Acinetobacter baumannii, Strain MRSN 2821

Catalog No. NR-52160

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 2821 was isolated in 2009 from a human wound sample in the United States as part of a global surveillance program. A. baumannii, strain MRSN 2821 was deposited as sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin and trimethoprim/sulfamethoxazole and intermediately resistant to ceftriaxone and tetracycline. NR-52160 lot 70041720 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: 70041720 Manufacturing Date: 05FEB2021

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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® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{2,3}		
Amikacin	Sensitive	Sensitive (4 to 6 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1 μg/mL)
Cefepime	Sensitive	Sensitive (1.5 to 2 µg/mL)
Ceftriaxone	Intermediate	Intermediate (16 µg/mL)
Ceftazidime	Sensitive	Sensitive (8 μg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 μg/mL)
Imipenem	Sensitive	Sensitive (≤ 1 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 1 µg/mL)
Meropenem	Sensitive	Sensitive (≤ 1 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 0.5 μg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 μg/mL)
Tetracycline	Intermediate	Intermediate (8 to 12 µg/mL)
Genotypic Analysis		, ,
Sequencing of 16S ribosomal RNA gene (~ 820 base pairs)	≥ 99% sequence identity to A. baumannii, strain MRSN 2821 (GenBank: VHGE01000050.1)	100% sequence identity to A. baumannii, strain MRSN 2821 (GenBank: VHGE01000050.1)
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

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

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

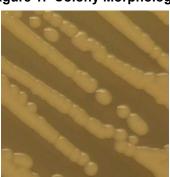


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TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

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

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

04 FEB 2022

Program Manager or designee, ATCC Federal Solutions

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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 GN82, Sensititre GNX2F AST and E-test strips.