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SUPPORTING INFECTIOUS DISEASE RESEARCH

Acinetobacter baumannii, Strain MRSN 7446

Catalog No. NR-52177

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 7446 was isolated in 2005 from a human wound sample in the USA as part of a global surveillance program. A. baumannii, strain MRSN 7446 was deposited as multi-locus sequence type (MLST) ST 963, sensitive to amikacin, ampicillin/sulbactam, cefepime, colistin, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, meropenem, levofloxacin, tetracycline and tobramycin and resistant to trimethoprim/sulfamethoxazole. NR-52177 lot 70041735 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: 70041735

Manufacturing Date: 29JAN2021

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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 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 (8 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1.5 μg/mL)
Cefepime	Sensitive	Sensitive (2 µg/mL)
Ceftriaxone	Sensitive	Intermediate (12 µg/mL) ⁴
Ceftazidime	Sensitive	Sensitive (4 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	Resistant	Resistant (4 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Sensitive	Intermediate (8 µg/mL) ⁴
Genotypic Analysis	≥ 99% sequence identity to	99.8% sequence identity to
Sequencing of 16S ribosomal RNA gene	A. baumannii, strain MRSN 7446	A. baumannii, strain MRSN 7446
(~ 1470 base pairs)	(GenBank: VHEB01000054.1)	(GenBank: VHEB01000054.1)
Purity	Growth consistent with expected	Growth consistent with expected
8 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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Certificate of Analysis for NR-52177

SUPPORTING INFECTIOUS DISEASE RESEARCH

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 VITEK2 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.

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

27 DEC 2021

Program Manager or designee, ATCC Federal Solutions

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