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SUPPORTING INFECTIOUS DISEASE RESEARCH

Acinetobacter baumannii, Strain MRSN 15049

Catalog No. NR-52194

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 15049 was isolated in 2013 from a respiratory specimen in Asia as part of a global surveillance program. A. baumannii, strain MRSN 15049 was deposited as sensitive to colistin and tobramycin, resistant to amikacin, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole and tetracycline, and intermediately resistant to ampicillin/sulbactam. NR-52194 lot 70039045 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: 70039045

Manufacturing Date: 23SEP2020

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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	Non-motile
VITEK [®] MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{2,3}		
Amikacin	Resistant	Resistant (≥ 256 µg/mL)
Ampicillin/sulbactam	Intermediate	Intermediate (16 µg/mL)
Cefepime	Resistant	Resistant (≥ 256 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 32 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (0.5 to 1 µg/mL)
Gentamicin	Resistant	Sensitive (4 µg/mL) ⁴
Imipenem	Resistant	Resistant (8 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Resistant	Resistant (≥ 16 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 4 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1µg/mL)
Tetracycline	Resistant	Resistant (≥ 256 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 15049 (GenBank: VHGW01000106.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 15049 (GenBank: VHGW01000106.1)

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Certificate of Analysis for NR-52194

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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

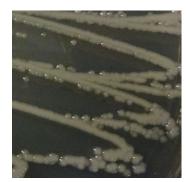
¹Growth at 44°C differentiates A. baumannii from A. calcoaceticus and A. pittii, which do not grow at 44°C.

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.

⁴A. baumannii, strain MRSN 15049 was deposited as resistant to gentamicin, but showed a MIC of 4 µg/mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

Program Manager or designee, ATCC Federal Solutions

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