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SUPPORTING INFECTIOUS DISEASE RESEARCH

Acinetobacter baumannii, Strain MRSN 5969

Catalog No. NR-52167

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

Product Description:

Acinetobacter baumannii (A. baumannii), MRSN 5969 was isolated in 2011 from a human wound sample in Europe as part of a global surveillance program. A. baumannii, strain MRSN 5969 was deposited as sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin, trimethoprim/sulfamethoxazole and tetracycline. NR-52167 was produced by inoculation of the BEI Resources seed lot 70041727 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: 70059682

Manufacturing Date: 29MAR2023

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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
Growth at 44°C ± 2°C ¹ 1 day in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth
Motility Hardy Diagnostics™ Motility Test Medium with 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	Sensitive	Sensitive (4 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1 µg/mL)
Cefepime	Sensitive	Sensitive (1 µg/mL)
Ceftriaxone	Sensitive	Sensitive (8 µg/mL)
Ceftazidime	Sensitive	Sensitive (4 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 µg/mL)
Imipenem	Sensitive	Sensitive (0.25 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.12 µg/mL)
Meropenem	Sensitive	Sensitive (≤ 0.25 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 20 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Resistant	Sensitive (1 µg/mL) ⁴
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1090 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 5969 (GenBank: VHEL01000119)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 5969 (GenBank: VHEL01000119)
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

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Certificate of Analysis for NR-52167

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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.

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 5969 was deposited sensitive to tetracycline, but showed a MIC of > 256 μg/mL (interpreted as resistant) for previous lot 70041726 during QC testing.

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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