

Certificate of Analysis for NR-52152

Acinetobacter baumannii, Strain MRSN 960

Catalog No. NR-52152

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 960 was isolated in 2008 from a human wound sample in the USA as part of a global surveillance program. A. baumannii, strain MRSN 960 was deposited as sensitive to colistin and tobramycin and resistant to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, tetracycline and trimethoprim/sulfamethoxazole. NR-52152 was produced by inoculation of BEI Resources seed lot 70038545 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: 70056667 Manufacturing Date: 16NOV2020

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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	Resistant	Resistant (64 µg/mL)
Cefepime	Resistant	Resistant (32 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Resistant	Resistant (24 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Resistant	Resistant (8 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 A. baumannii, strain MRSN 960	100% sequence identity to A. baumannii, strain MRSN 960
(~ 1480 base pairs)	(GenBank: VHDR01000076.1)	(GenBank: VHDR01000076.1)
Purity	Growth consistent with expected	Growth consistent with expected
7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar	colony morphology	colony morphology
Viability	Growth	Growth

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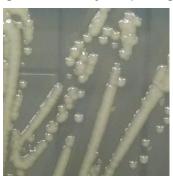


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¹Growth at 44°C differentiates A. baumannii from A. calcoaceticus and A. pittii, which do not grow at 44°C.

²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

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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³Antibiotic susceptibility was tested using a combination of VITEK® 2 GN81, Sensititre GNX2F AST and E-test strips.