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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-52151

Acinetobacter baumannii, Strain MRSN 959

Catalog No. NR-52151

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 959 was isolated in 2008 from a human wound in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 959 was deposited as sensitive to colistin and tetracycline and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem, tobramycin and ampicillin/sulbactam. NR-52151 lot 70038247 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: 70038247 **Manufacturing Date: 26AUG2020**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, raised, 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 BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Report results	Motile
VITEK® GN card	*A. baumannii* (≥ 89%)	*A. baumannii* (99%)
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 (256 µg/mL)
Cefepime	Resistant	Resistant (> 256 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Resistant	Resistant (12 µg/mL)
Meropenem	Resistant	Resistant (≥ 8 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (> 4 µg/mL)
Tobramycin	Resistant	Resistant (32 µg/mL)
Tetracycline	Sensitive	Intermediate (6 to 8 µg/mL)[4]
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 959 (GenBank: VHDS01000075.1)	100% sequence identity to *A. baumannii*, strain MRSN 959 (GenBank: VHDS01000075.1)

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TEST	SPECIFICATIONS	RESULTS
Purity 8 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

[1]Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus and A. pittii*, which do not grow at 44°C.
[2]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)
[3]Antibiotic susceptibility was tested using a combination of VITEK® 2 GN82, Sensititre™ GNX2F AST and E-test strips.
[4]Susceptibilty results for this antibiotic are within one doubling dilution of specification, which is considered an equivalent result.

Figure 1: Colony Morphology

/Heather Couch/
Heather Couch 28 MAY 2021
Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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