Certificate of Analysis for NR-52166

Acinetobacter baumannii, Strain MRSN 4943

Catalog No. NR-52166

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 4943 was isolated in 2011 from a human respiratory sample in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 4943 was deposited as sensitive to colistin, imipenem and meropenem, intermediately resistant to amikacin and tobramycin, and resistant to ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin, tetracycline and trimethoprim/sulfamethoxazole. NR-52166 lot 70038535 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: 70038535 Manufacturing Date: 27AUG2020

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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	Intermediate	Intermediate (32 µg/mL)
Ampicillin/sulbactam	Resistant	Resistant (32 µg/mL)
Cefepime	Resistant	Resistant (32 µg/mL)
Ceftriaxone	Resistant	Resistant (> 32 µg/mL)
Ceftazidime	Resistant	Resistant (32 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Sensitive	Sensitive (≤ 1 µg/mL)
Levofloxacin	Resistant	Resistant (8 to 16 µg/mL)
Meropenem	Sensitive	Sensitive (≤ 1 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (> 4 µg/mL)
Tobramycin	Intermediate	Intermediate (8 µg/mL)
Tetracycline	Resistant	Resistant (> 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1480 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 4943 (GenBank: VHEM01000084.1)	100% sequence identity to *A. baumannii*, strain MRSN 4943 (GenBank: VHEM01000084.1)
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

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

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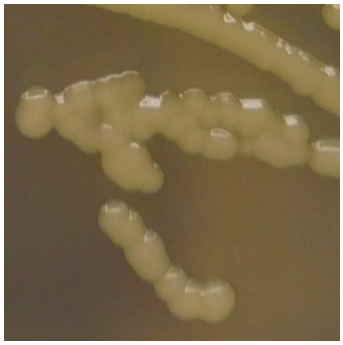
TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

[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 VITEK2 GN82, Sensititre GNX2F AST and E-test strips.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch 23 NOV 2021
Program Manager or designee, ATCC Federal Solutions

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Support Provided by NIAID

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898