

Certificate of Analysis for NR-52183

Acinetobacter baumannii, Strain MRSN 7735

Catalog No. NR-52183

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 7735 was isolated in 2006 from a human wound sample in the United States as part of a global surveillance program. NR-52183 was deposited as sensitive to amikacin, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin, tetracycline, ampicillin/sulbactam and trimethoprim/sulfamethoxazole. NR-52183 lot 70042453 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: 70042453 Manufacturing Date: 24FEB2020

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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	Growth	Growth
1 day in an aerobic atmosphere on Tryptic		
Soy agar		
Motility	Report results	Motile
Remel™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic		
atmosphere		
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{2,3}	7 ii Saamamii	7.1. Saamaniii (cc.c/c)
Amikacin	Sensitive	Sensitive (4 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1 to 1.5 µg/mL)
Cefepime	Sensitive	Sensitive (1.5 to 2 µg/mL)
Ceftriaxone	Sensitive	Sensitive (8 µg/mL)
Ceftazidime	Sensitive	Sensitive (4 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 µg/mL)
Imipenem	Sensitive	Sensitive (≤ 1 μg/mL)
Levofloxacin	Sensitive	Inconclusive ⁴
Meropenem	Sensitive	Sensitive (≤ 1 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 0.5 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Sensitive	Sensitive (4 µg/mL)
Genotypic Analysis		, ,
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	99.9% sequence identity to
(~ 1470 base pairs)	A. baumannii, strain MRSN 7735	A. baumannii, strain MRSN 7735
	(GenBank: VHDV01000051.1)	(GenBank: VHDV01000051.1)
Purity	Growth consistent with expected	Growth consistent with expected
7 days at 37°C in an aerobic atmosphere with	colony morphology	colony morphology
and without 5% CO ₂ on Tryptic Soy agar		

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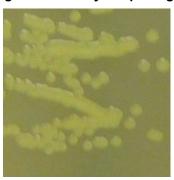


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TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

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

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

10 JAN 2022

Program Manager or designee, ATCC Federal Solutions

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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 7735 was deposited as being resistant to levofloxacin. Repeated antibiotic susceptibility testing determined that for strain MRSN 7735, the levofloxacin MICs are ≥ 8 μg/mL and ≤ 1 μg/mL, which are interpreted as resistant and sensitive, respectively.