

Product Information Sheet for NR-52155

Acinetobacter baumannii, Strain MRSN 1183

Catalog No. NR-52155

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 1183 was isolated in 2010 from a human wound sample in the USA as part of a global surveillance program. A. baumannii, strain MRSN 1183 was deposited as sensitive to ampicillin/sulbactam, ceftazidime, cefepime, colistin, imipenem and meropenem, intermediately resistant to ceftriaxone, and resistant to amikacin, ciprofloxacin, gentamicin, levofloxacin, tetracycline, trimethoprim/sulfamethoxazole and tobramycin. NR-52155 was produced by inoculation of BEI Resources seed lot 70039385 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: 70059456 Manufacturing Date: 22MAR2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, mucoid, 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 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	Resistant	Resistant (≥ 256 µg/mL)
Ampicillin/sulbactam	Resistant	Resistant (96 μg/mL) ⁴
Cefepime	Sensitive	Resistant (≥ 256 µg/mL) ⁵
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL) ⁶
Ceftazidime	Report results	Resistant (≥ 64 µg/mL) ⁷
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Sensitive	Sensitive (2 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Sensitive	Intermediate (4 µg/mL) ⁸
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Tobramycin	Resistant	Resistant (≥ 16 µg/mL)
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)
Genotypic Analysis		, , ,
Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to A. baumannii, strain MRSN 1183 (GenBank: VHHD01000091.1)	99.9% sequence identity to A. baumannii, strain MRSN 1183 (GenBank: VHHD01000091.1)
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

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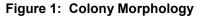
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TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

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

⁸The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.





/Sonia Bjorum Brower/ Sonia Bjorum Brower

18 SEP 2023

Technical 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 GN81 and E-test strips.

⁴A. baumannii, strain MRSN 1183 was deposited as being sensitive to ampicillin/sulbactam, but showed a MIC of 12 to 24 μg/mL (interpreted as resistant) for lot 70039384 during QC testing.

⁵A. baumannii, strain MRSN 1183 was deposited as being sensitive to cefepime. Repeated antibiotic susceptibility testing determined that for strain MRSN 1183, the cefepime MIC is ≥ 256 µg/mL, which is interpreted as resistant. Testing was performed in duplicate.

⁶A. baumannii, strain MRSN 1183 was deposited as being intermediately resistant to ceftriaxone, but showed a MIC of > 32 μg/mL (interpreted as resistant) for lot 70039384 during QC testing.

⁷A. baumannii, strain MRSN 1183 was deposited as being sensitive to ceftazidime but showed MICs of 1.5 μg/mL (interpreted as sensitive) and 32 μg/mL (interpreted as resistant), for lot 70039384 during QC testing, resulting in an inconclusive result.