

***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 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: 70039384**

**Manufacturing Date: 15OCT2020**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Growth at 44°C ± 2°C <sup>1</sup> 1 day in an aerobic atmosphere on Tryptic Soy agar Motility Remel™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere VITEK® MS (MALDI-TOF)	Gram-negative rods Report results  Growth  Report results  <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Growth  Non-motile  <i>A. baumannii</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>2,3</sup></b> Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Resistant Sensitive Sensitive Intermediate Sensitive Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Resistant Resistant	Resistant (192 µg/mL) <b>Resistant (12 to 24 µg/mL)<sup>4</sup></b> Sensitive (4 µg/mL) <b>Resistant (&gt; 32 µg/mL)<sup>5</sup></b> Inconclusive <sup>6</sup> Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (8 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (> 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (> 256 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 1183 (GenBank: VHH01000091.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 1183 (GenBank: VHH01000091.1)

TEST	SPECIFICATIONS	RESULTS
<b>Purity</b> 9 days at 37°C in an aerobic atmosphere with and without 5% CO <sub>2</sub> on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability</b>	Growth	Growth

<sup>1</sup>Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.

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

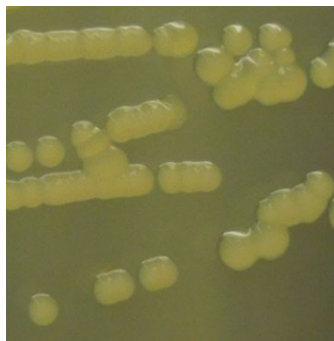
<sup>3</sup>Antibiotic susceptibility was tested using a combination of VITEK2 GN82, Sensititre GNX2F AST and E-test strips.

<sup>4</sup>*A. baumannii* strain MRSN 1183 was deposited as being sensitive to ampicillin-sulbactam. Repeated antibiotic susceptibility testing determined that for strain MRSN 1183, the ampicillin/sulbactam MIC is 12 to 24 µg per mL, which is interpreted as resistant. Testing was performed in duplicate.

<sup>5</sup>*A. baumannii* strain MRSN 1183 was deposited as being intermediately resistant to ceftriaxone. Repeated antibiotic susceptibility testing determined that for strain MRSN 1183, the ceftriaxone MIC is > 32 µg per mL, which is interpreted as resistant. Testing was performed in duplicate.

<sup>6</sup>*A. baumannii* strain MRSN 1183 was deposited as being sensitive to ceftazidime. Repeated antibiotic susceptibility testing determined that for strain MRSN 1183, the ceftazidime MICs are 1.5 µg per mL and 32 µg per mL, which are interpreted as sensitive and resistant, respectively.

Figure 1: Colony Morphology



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