

**Acinetobacter baumannii, Strain MRSN 7067**

**Catalog No. NR-52169**

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**Product Description:**

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 7067 was isolated in 2003 from a human blood sample in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 7067 was deposited as multi-locus sequence type (MLST) ST 81, sensitive to amikacin, colistin, imipenem, meropenem and ampicillin/sulbactam, intermediately resistant to cefepime and resistant to ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin, tetracycline, tobramycin and trimethoprim/sulfamethoxazole. NR-52169 was produced by inoculation of BEI Resources seed lot 70040781 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: 70053513**

**Manufacturing Date: 16JUN2022**

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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 BBL™ 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 <sup>2</sup>  <i>A. baumannii</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>3,4</sup></b> Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Sensitive Intermediate Resistant Resistant Resistant Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant Sensitive Resistant	Sensitive (16 µg/mL) Sensitive (4 µg/mL) Intermediate (16 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Intermediate (3 to 4 µg/mL) <sup>5</sup> Resistant (≥ 8 µg/mL) Sensitive (0.5 µg/mL) Resistant (≥ 320 µg/mL) Sensitive (4 µg/mL) <sup>6</sup> Resistant (≥ 16 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 7067 (GenBank: VHEJ01000075.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 7067 (GenBank: VHEJ01000075.1)
<b>Purity</b> 7 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

TEST	SPECIFICATIONS	RESULTS
Viability	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>BEI Resources lot 70040780 was motile.

<sup>3</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>4</sup>Antibiotic susceptibility was tested using a combination of VITEK®2 GN81 and E-test strips.

<sup>5</sup>The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

<sup>6</sup>*A. baumannii*, strain MRSN 7067 was deposited resistant to tobramycin, but showed a MIC of 4 µg/mL (interpreted as sensitive) for lot 70040780 during QC testing.

Figure 1: Colony Morphology



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