

***Acinetobacter baumannii*, Strain MRSN 7251**

**Catalog No. NR-52175**

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**Product Description:**

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 7251 was isolated in 2004 from a human wound sample in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 7251 was deposited as multi-locus sequence type (MLST) ST 32, sensitive to amikacin, colistin, imipenem, levofloxacin, meropenem and trimethoprim/sulfamethoxazole and resistant to cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, ampicillin/sulbactam, tetracycline and tobramycin. NR-52175 was produced by inoculation of BEI Resources seed lot 70040787 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: 70060466**

**Manufacturing Date: 05MAY2023**

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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 Hardy Diagnostics™ Motility Test Medium with 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 Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Resistant	Sensitive (8 µg/mL) Resistant (96 µg/mL) Resistant (> 256 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Intermediate (3 µg/mL) <sup>4</sup> Resistant (24 µg/mL) Sensitive (0.5 µg/mL) Sensitive (2 µg/mL) Sensitive (0.5 µg/mL) Sensitive (≤ 20 µg/mL) Resistant (16 to 24 µg/mL) Resistant (≥ 16 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 7251 (GenBank: VHED01000109.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 7251 (GenBank: VHED01000109.1)
<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

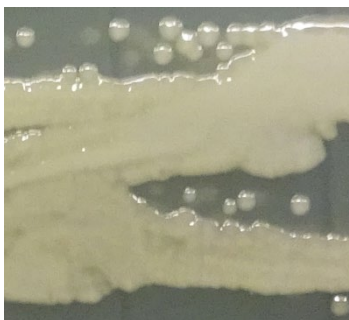
<sup>1</sup>Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.

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

<sup>3</sup>Antibiotic susceptibility was tested using a combination of VITEK<sup>®</sup>2 GN81 and E-test strips.

<sup>4</sup>The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/  
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26 SEP 2023

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