

***Acinetobacter baumannii*, Strain MRSN 7213**

**Catalog No. NR-52174**

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**Product Description:**

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 7213 was isolated in 2003 from a human wound specimen in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 7213 was deposited as multi-locus sequence type (MLST) ST 1, sensitive to amikacin, ciprofloxacin, colistin, cefepime, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole, ampicillin/sulbactam and tetracycline and resistant to ceftazidime, ceftriaxone, gentamicin and tobramycin. NR-52174 was produced by inoculation of BEI Resources seed lot 70041734 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: 70062664**

**Manufacturing Date: 23AUG2023**

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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  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	Sensitive Sensitive Sensitive Resistant Resistant Sensitive Sensitive Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Sensitive	Sensitive (3 µg/mL) Sensitive (1.5 µg/mL) Sensitive (3 µg/mL) Resistant (≥ 64 µg/mL) Intermediate (12 µg/mL) <sup>4</sup> Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL) <sup>5</sup> Resistant (16 µg/mL) Sensitive (0.75 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (0.5 µg/mL) Sensitive (≤ 20 µg/mL) Resistant (12 µg/mL) Sensitive (2 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 7213 (GenBank: VHEE01000054.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 7213 (GenBank: VHEE01000054.1)

TEST	SPECIFICATIONS	RESULTS
<b>Purity</b> 8 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	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 VITEK®2 GN81 and E-test strips.

<sup>4</sup>*A. baumannii*, strain MRSN 7213 was deposited as resistant to ceftazidime, but showed an MIC of 12 µg/mL (interpreted as intermediately resistant) for this lot during QC testing.

<sup>5</sup>Testing was performed on BEI Resources seed lot 70041734.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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