

**Acinetobacter baumannii, Strain MRSN 334**

**Catalog No. NR-52148**

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**Product Description:**

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 334 was isolated in 2010 from a human respiratory specimen in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 334 was deposited as sensitive to amikacin, colistin and tobramycin, intermediately resistant to tetracycline and resistant to ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem and ampicillin/sulbactam. NR-52148 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: 70038244**

**Manufacturing Date: 20AUG2020**

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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 Cefepime Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Tobramycin Trimethoprim/sulfamethoxazole Ampicillin/sulbactam Ceftriaxone Tetracycline	Sensitive Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Intermediate	Sensitive (≤ 4 to 16 µg/mL) Intermediate to Resistant (24 µg/mL) <sup>4</sup> Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Resistant (> 8 µg/mL) Resistant (> 32 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (> 4 µg/mL) Sensitive (6 to 8 µg/mL) <sup>5</sup> Resistant (≥ 64 µg/mL) Resistant (≥ 256 µg/mL) <sup>6</sup>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 334 (GenBank: VHFA01000109.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 334 (GenBank: VHFA01000109.1)

TEST	SPECIFICATIONS	RESULTS
<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
<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)

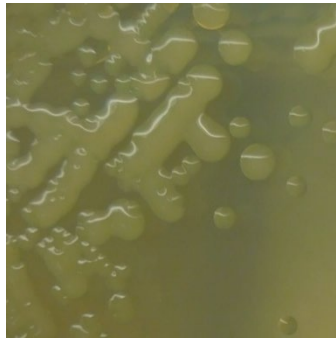
<sup>3</sup>Antibiotic susceptibility was tested using a combination of VITEK® 2 GN82, Sensititre™ GNX2F AST and E-test strips.

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

<sup>5</sup>*A. baumannii*, strain MRSN 334 was deposited as resistant to ampicillin/sulbactam but showed a MIC of 6 to 8 µg/mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

<sup>6</sup>*A. baumannii*, strain MRSN 334 was deposited as intermediately resistant to tetracycline but showed a MIC of ≥ 256 µg/mL (interpreted as resistant) for this antibiotic during QC testing. Testing was performed in duplicate.

Figure 1: Colony Morphology



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