

**Acinetobacter baumannii, Strain MRSN 337038**

**Catalog No. NR-52240**

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**Product Description:**

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 337038 was isolated in 2015 from a human in Europe as part of a global surveillance program. NR-52240 was deposited as sensitive to colistin and tetracycline and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole and ampicillin/sulbactam, and intermediately resistant to tobramycin. NR-52240 lot 70055208 was produced by inoculation of BEI Resources seed lot 70039377 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: 70055208**

**Manufacturing Date: 26AUG2022**

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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 BD 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  <i>A. baumannii</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>2,3</sup></b> Amikacin Ampicillin/sulbactam Cefepime Ceftazidime Ceftriaxone Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Tetracycline Tobramycin Trimethoprim/sulfamethoxazole	Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Sensitive Resistant	Resistant (256 µg/mL) Resistant (16 µg/mL) Resistant (24 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (32 µg/mL) Resistant (16 µg/mL) Resistant (≥ 16 µg/mL) Resistant (256 µg/mL) Sensitive (≤ 1 µg/mL) Resistant (≥ 320 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 337038 (GenBank: VHEY01000100.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 337038 (GenBank: VHEY01000100.1)
<b>Purity</b> 7 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

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 GN82, Sensititre<sup>™</sup> GNX2F AST and E-test strips.

Figure 1: Colony Morphology



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