

# Acinetobacter baumannii, Strain MRSN 32842

## Catalog No. NR-52234

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## Product Description:

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 32842 was isolated in 2005 from a human wound sample in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 32842 was deposited as sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, imipenem, levofloxacin, meropenem, tetracycline, trimethoprim/sulfamethoxazole and tobramycin and intermediately resistant to gentamicin. NR-52234 lot 70042858 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: 70042858

Manufacturing Date: 17MAR2021

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| TEST                                                                                                                                                                                                                                                                                                  | SPECIFICATIONS                                                                                                                                                                                                  | RESULTS                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Phenotypic Analysis</b><br>Cellular morphology<br>Colony morphology<br><br>Growth at 44°C ± 2°C <sup>1</sup><br>1 day in an aerobic atmosphere on Tryptic Soy agar<br>Motility<br>BBL™ Motility Test Medium w/TTC Indicator<br>for 1 day at 37°C in an aerobic atmosphere<br>VITEK® MS (MALDI-TOF) | Gram-negative rods<br>Report results<br><br>Growth<br><br>Report results<br><br><i>A. baumannii</i>                                                                                                             | Gram-negative rods<br>Circular, convex, entire, smooth and cream (Figure 1)<br>Growth<br><br>Motile<br><br><i>A. baumannii</i> (99.9%)                                                                                                                                                                                                                                                                         |
| <b>Antibiotic Susceptibility Profile<sup>2,3</sup></b><br>Amikacin<br>Ampicillin/sulbactam<br>Cefepime<br>Ceftriaxone<br>Ceftazidime<br>Ciprofloxacin<br>Colistin<br>Gentamicin<br>Imipenem<br>Levofloxacin<br>Meropenem<br>Trimethoprim/sulfamethoxazole<br>Tobramycin<br>Tetracycline               | Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Intermediate<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive<br>Sensitive | Sensitive (≤ 16 µg/mL)<br>Sensitive (1.5 µg/mL)<br>Sensitive (≤ 2 µg/mL)<br>Intermediate (12 to 16 µg/mL) <sup>4</sup><br>Sensitive (4 µg/mL)<br>Sensitive (≤ 0.25 µg/mL)<br>Sensitive (0.5 µg/mL)<br>Sensitive (≤ 3 µg/mL) <sup>5</sup><br>Sensitive (≤ 1 µg/mL)<br>Sensitive (≤ 1 µg/mL)<br>Sensitive (≤ 1 µg/mL)<br>Sensitive (≤ 0.5 µg/mL)<br>Sensitive (≤ 1 µg/mL)<br>Intermediate (6 µg/mL) <sup>4</sup> |
| <b>Genotypic Analysis</b><br>Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)                                                                                                                                                                                                                 | ≥ 99% sequence identity to<br><i>A. baumannii</i> , strain MRSN 32842<br>(GenBank: VFHG01000046.1)                                                                                                              | 100% sequence identity to<br><i>A. baumannii</i> , strain MRSN 32842<br>(GenBank: VFHG01000046.1)                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b><br>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                                                                                                                                                                                                                                                                                                                                                              |

# Certificate of Analysis for NR-52234

| 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.

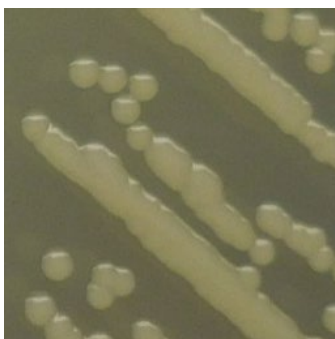
<sup>2</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>3</sup>Antibiotic susceptibility was tested using a combination of VITEK®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 32842 was deposited as being intermediately resistant to gentamicin. Repeated antibiotic susceptibility testing determined that for strain MRSN 32842, the gentamicin MIC is  $\leq 3 \mu\text{g}$  per mL, which is interpreted as sensitive. Testing was performed in duplicate.

**Figure 1: Colony Morphology**



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29 JAN 2022

Program Manager or designee, ATCC Federal Solutions

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