

Acinetobacter baumannii, Strain MRSN 351162

Catalog No. NR-52241

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 351162 was isolated in 2011 from a human in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 351162 was deposited as sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, imipenem, levofloxacin, meropenem, tetracycline, tobramycin and trimethoprim/sulfamethoxazole and intermediately resistant to gentamicin. NR-52241 was produced by inoculation of BEI Resources seed lot 70042863 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: 70061815

Manufacturing Date: 29JUN2023

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| TEST | SPECIFICATIONS | RESULTS |
|--|---|--|
| Phenotypic Analysis Cellular morphology Colony morphology Growth at 44°C ± 2°C ¹ 1 day in an aerobic atmosphere on Tryptic Soy agar Motility Hardy Diagnostics™ 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 Growth Non-motile <i>A. baumannii</i> (99.9%) |
| Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftazidime Ceftriaxone Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Tetracycline Tobramycin Trimethoprim/sulfamethoxazole | Sensitive Sensitive Sensitive Sensitive Intermediate Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive | Sensitive (3 µg/mL) Sensitive (1.5 µg/mL) Sensitive (2 µg/mL) Sensitive (4 µg/mL) Intermediate (16 µg/mL) ⁴ Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 1 µg/mL) ⁵ Sensitive (0.25 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 20 µg/mL) |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs) | ≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 351162 (GenBank: VHEX01000060.1) | 100% sequence identity to <i>A. baumannii</i> , strain MRSN 351162 (GenBank: VHEX01000060.1) |
| Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar | Growth consistent with expected colony morphology | Growth consistent with expected colony morphology |

| TEST | SPECIFICATIONS | RESULTS |
|-----------|----------------|---------|
| Viability | Growth | Growth |

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

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

³Antibiotic susceptibility was tested using a combination of VITEK[®]2 GN81 and E-test strips.

⁴*A. baumannii*, strain MRSN 351162 was deposited as being sensitive to ceftriaxone, but showed a MIC of 12 to 16 µg/mL (interpreted as intermediately resistant) for lot 70042862 during QC testing. Testing was performed in duplicate.

⁵*A. baumannii*, strain MRSN 351162 was deposited as being intermediately resistant to gentamicin, but showed a MIC of ≤ 2 µg/mL (interpreted as sensitive) for lot 70042862 during QC testing. Testing was performed in duplicate.

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Technical Manager or designee, ATCC Federal Solutions

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