

Acinetobacter baumannii, Strain MRSN 351524

Catalog No. NR-52242

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 351524 was isolated in 2011 from a human blood sample in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 351524 was deposited as multi-locus sequence type (MLST) ST 113, sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, imipenem, levofloxacin, meropenem, tetracycline, tobramycin and trimethoprim/sulfamethoxazole and resistant to gentamicin. NR-52242 was produced by inoculation of BEI Resources seed lot 70042865 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: 70061803

Manufacturing Date: 30JUN2023

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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 Ceftriaxone Ceftazidime Ciprofloxacin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive	Sensitive (6 µg/mL) Sensitive (1 µg/mL) Sensitive (8 µg/mL) Sensitive (8 µg/mL) Sensitive (4 µg/mL) Sensitive (0.5 µg/mL) Sensitive (4 µg/mL) ⁴ Sensitive (0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (0.5 µg/mL) Sensitive (≤ 20 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (2 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 351524 (GenBank: VHEW01000044.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 351524 (GenBank: VHEW01000044.1)

Certificate of Analysis for NR-52242

TEST	SPECIFICATIONS	RESULTS
Purity 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated blood	Growth consistent with expected colony morphology Growth consistent with expected colony morphology	Growth consistent with expected colony morphology Growth consistent with expected colony morphology
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 351524 was deposited as resistant to gentamicin and was found to be resistant in the previous lot but showed a MIC of 4 µg/mL (interpreted as sensitive) for gentamicin during QC testing. Testing was performed in duplicate.

/Sonia Bjorum Brower/

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18 AUG 2023

Technical Manager or designee, ATCC Federal Solutions

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