

Acinetobacter baumannii, Strain MRSN 4484

Catalog No. NR-52165

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 4484 was isolated in 2011 from a human tissue sample in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 4484 was deposited as sensitive to colistin and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem, tetracycline, tobramycin and ampicillin/sulbactam. NR-52165 lot 70038534 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: 70038534

Manufacturing Date: 26AUG2020

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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 Remel™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere VITEK® GN Card VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Growth Report results <i>A. baumannii</i> (≥ 89%) <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, mucoid and cream (Figure 1) Growth Non-motile <i>A. baumannii</i> (99%) <i>A. baumannii</i> (99.9%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Cefepime Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Tobramycin Trimethoprim/sulfamethoxazole Ampicillin/sulbactam Ceftriaxone Tetracycline	Resistant Resistant Resistant Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant	Resistant (> 256 µg/mL) Resistant (48 to 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (≥ 16 µg/mL) Resistant (> 8 µg/mL) Intermediate (4 µg/mL) ⁴ Resistant (≥ 16 µg/mL) Sensitive (≤ 1 to 2 µg/mL) ⁵ Resistant (> 4 µg/mL) Resistant (48 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 4484 (GenBank: VHER01000112.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 4484 (GenBank: VHER01000112.1)

TEST	SPECIFICATIONS	RESULTS
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
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 GN82, Sensititre GNX2F AST and E-test strips.

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

⁵*A. baumannii*, strain MRSN 4484 was deposited as resistant to tobramycin, but showed a MIC of $\leq 2 \mu\text{g}$ per mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch

28 APR 2021

Program Manager or designee, ATCC Federal Solutions

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