

***Acinetobacter baumannii*, Strain MRSN 21660**

Catalog No. NR-52204

This reagent is the tangible property of the U.S. Government.

Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 21660 was isolated in 2013 from a human wound in Central America as part of a global surveillance program. *A. baumannii*, strain MRSN 21660 was deposited as sensitive to colistin and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem, tobramycin, tetracycline and ampicillin/sulbactam. NR-52204 was produced by inoculation of BEI Resources seed lot 70038251 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: 70053519

Manufacturing Date: 22JUN2022

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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 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 Non-motile <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) 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	Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant	Resistant (≥ 256 µg/mL) Resistant (96 µg/mL) Resistant (≥ 256 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 32 µg/mL) Resistant (≥ 8 µg/mL) Resistant (8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 320 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 970 base pairs) (500 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 21660 (GenBank: VHGL01000086.1) ≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 21660 (GenBank: VHGL01000087.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 21660 (GenBank: VHGL01000086.1) 100% sequence identity to <i>A. baumannii</i> , strain MRSN 21660 (GenBank: VHGL01000087.1)

TEST	SPECIFICATIONS	RESULTS
Purity 9 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 GN81 and E-test strips.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
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Technical Manager or designee, ATCC Federal Solutions

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