

# Certificate of Analysis for NR-52204

### 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 lot 70038242 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: 70038242 Manufacturing Date: 20AUG2020

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream (Figure 1)
Growth at 44°C ± 2°C¹ 1 day in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth
Motility  BBL™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Report results	Non-motile
VITEK®2 GN	A. baumannii (≥ 89%)	A. baumannii (99%)
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile <sup>2,3</sup>		
Amikacin	Resistant	Resistant (> 256 µg/mL)
Ampicillin/sulbactam	Resistant	Resistant (32 µg/mL)
Cefepime	Resistant	Resistant (> 256 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Resistant	Resistant (> 8 µg/mL)
Levofloxacin	Resistant	Resistant (32 μg/mL)
Meropenem	Resistant	Resistant (> 8 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (> 4 µg/mL)
Tobramycin	Resistant	Resistant (≥ 16 µg/mL)
Tetracycline	Resistant	Resistant (≥ 256 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene		
(~ 980 base pairs)	≥ 99% sequence identity to  A. baumannii, strain MRSN 21660 (GenBank: VHGL01000086.1)	100% sequence identity to  A. baumannii, strain MRSN 21660 (GenBank: VHGL01000086.1)

BEI Resources www.beiresources.org E-mail: <a href="mailto:contact@beiresources.org">contact@beiresources.org</a>
Tel: 800-359-7370

Fax: 703-365-2898

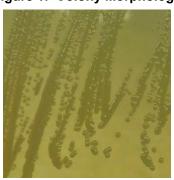


# **Certificate of Analysis for NR-52204**

TEST	SPECIFICATIONS	RESULTS
(~ 500 base pairs)	≥ 99% sequence identity to  A. baumannii, strain MRSN 21660 (GenBank: VHGL01000087.1)	100% sequence identity to  A. baumannii, strain MRSN 21660 (GenBank: VHGL01000087.1)
Purity 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
Viability	Growth	Growth

<sup>&</sup>lt;sup>1</sup>Growth at 44°C differentiates A. baumannii from A. calcoaceticus and A. pittii, which do not grow at 44°C.

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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BEI Resources www.beiresources.org E-mail: <a href="mailto:contact@beiresources.org">contact@beiresources.org</a>
Tel: 800-359-7370

Fax: 703-365-2898

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

<sup>&</sup>lt;sup>3</sup>Antibiotic susceptibility was tested using a combination of VITEK®2 GN82, Sensititre GNX2F AST and E-test strips.