

# **Certificate of Analysis for NR-52160**

## Acinetobacter baumannii, Strain MRSN 2821

## Catalog No. NR-52160

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

## **Product Description:**

Acinetobacter baumannii (A. baumannii), strain MRSN 2821 was isolated in 2009 from a human wound sample in the United States as part of a global surveillance program. A. baumannii, strain MRSN 2821 was deposited as multi-locus sequence type (MLST) ST 537, sensitive to amikacin, ampicillin-sulbactam, cefepime, ceftazidime, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin and trimethoprim/sulfamethoxazole and intermediately resistant to ceftriaxone and tetracycline. NR-52160 was produced by inoculation of BEI Resources seed lot 70041721 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: 70060465 Manufacturing Date: 05MAY2023

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: <a href="mailto:Contact@BEIResources.org">Contact@BEIResources.org</a>. We try to respond to feedback within 24 hours.

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 45°C ± 2°C <sup>1</sup>	Growth	Growth
1 day in an aerobic atmosphere on Tryptic		
Soy agar		
Motility	Report results	Motile
Hardy Diagnostics™ Motility Test Medium with TTC Indicator for 1 day at 37°C in an		
aerobic atmosphere		
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.8%)
Antibiotic Susceptibility Profile <sup>2,3</sup>		
Amikacin	Sensitive	Sensitive (1.5 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1.5 μg/mL)
Cefepime	Sensitive	Sensitive (2 µg/mL)
Ceftriaxone	Intermediate	Intermediate (16 µg/mL)
Ceftazidime	Sensitive	Sensitive (4 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 μg/mL)
Imipenem	Sensitive	Sensitive (0.38 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.12 μg/mL)
Meropenem	Sensitive	Sensitive (≤ 0.25 μg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 20 μg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 μg/mL)
Tetracycline	Intermediate	Intermediate (12 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to	100% sequence identity to
(~ 830 base pairs)	A. baumannii, strain MRSN 2821	A. baumannii, strain MRSN 2821
	(GenBank: VHGE01000050.1)	(GenBank: VHGE01000050.1)
Purity	Growth consistent with expected colony	Growth consistent with expected colony
7 days at 37°C in an aerobic atmosphere with	morphology	morphology
and without 5% CO <sub>2</sub> on Tryptic Soy agar		

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370

Tel: 800-359-7370 Fax: 703-365-2898

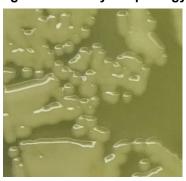


# **Certificate of Analysis for NR-52160**

TEST	SPECIFICATIONS	RESULTS
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



/Sonia Bjorum Brower/ Sonia Bjorum Brower

15 SEP 2023

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
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 GN81 and E-test strips.