

**Acinetobacter baumannii, Strain MRSN 11695**

**Catalog No. NR-52188**

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

**Product Description:**

*Acinetobacter baumannii* (*A. baumannii*), strain MRSN 11695 was isolated in 2007 from a human urine sample in USA as part of a global surveillance program. *A. baumannii*, strain MRSN 11695 was deposited as sensitive to colistin, intermediately resistant to tetracycline, and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, tobramycin, trimethoprim/sulfamethoxazole, levofloxacin, meropenem and ampicillin/sulbactam. NR-52188 lot 70039038 was produced by inoculation of the depositor 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: 70039038**

**Manufacturing Date: 10SEP2020**

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: [Contact@BEIResources.org](mailto:Contact@BEIResources.org). We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Growth at 44°C ± 2°C <sup>1</sup> 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® MS (MALDI-TOF)	Gram-negative rods Report results  Growth  Report results  <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Growth  Non-motile  <i>A. baumannii</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>2,3</sup></b> 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 Intermediate	Resistant (> 256 µg/mL) Resistant (> 256 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Resistant (> 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Inconclusive (2 to 4 µg/mL) <sup>4</sup> Sensitive (4 to 6 µg/mL) <sup>5</sup> Resistant (≥ 64 µg/mL) Resistant (≥ 256 µg/mL) <sup>6</sup>
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 11695 (GenBank: VHHI01000080.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 11695 (GenBank: VHHI01000080.1)
<b>Purity</b> 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

TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

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

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

<sup>3</sup>Antibiotic susceptibility was tested using a combination of VITEK<sup>®</sup>2 GN82, Sensititre GNX3F AST and E-test strips.

<sup>4</sup>*A. baumannii* strain MRSN 11695 was deposited as being resistant to trimethoprim/sulfamethoxazole. Repeated antibiotic susceptibility testing determined that for strain MRSN 11695, the trimethoprim/sulfamethoxazole MICs are 2 µg per mL and 4 µg per mL, which are interpreted as sensitive and resistant, respectively. Testing was performed in duplicate.

<sup>5</sup>*A. baumannii*, strain MRSN 11695 was deposited as resistant to ampicillin/subactam, but showed a MIC of 4 to 6 µg per mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in quadruplicate.

<sup>6</sup>*A. baumannii*, strain MRSN 11695 was deposited as intermediately resistant to tetracycline, but showed a MIC of ≥ 256 µg per mL (interpreted as resistant) for this antibiotic during QC testing. Testing was performed in quadruplicate.

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch

08 APR 2021

Program Manager or designee, ATCC Federal Solutions

ATCC<sup>®</sup>, 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<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> 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.

