

Acinetobacter baumannii, Strain MRSN 23390

Catalog No. NR-52207

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

Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 23390 was isolated in 2014 from an intravenous line in Asia as part of a global surveillance program. NR-52207 was deposited as multi-locus sequence type (MLST) ST 15, sensitive to colistin, cefepime, imipenem, meropenem, ampicillin/sulbactam and tetracycline and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, gentamicin, levofloxacin, tobramycin and trimethoprim/sulfamethoxazole. NR-52207 was produced by inoculation of the BEI Resources seed lot 70041127 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: 70056949

Manufacturing Date: 30NOV2022

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. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Growth at 44°C ¹ 1 day at 44°C in an aerobic atmosphere on Tryptic Soy agar Motility (wet mount) 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 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 Sensitive Sensitive Resistant Resistant Resistant Resistant Sensitive Resistant Sensitive Resistant Resistant Resistant	Resistant (192 µg/mL) Sensitive (3 µg/mL) Sensitive (8 µg/mL) Resistant (32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (1.5 µg/mL) Intermediate (4 µg/mL) ⁴ Sensitive (0.5 µg/mL) Sensitive (3 to 4 µg/mL) ⁵ Resistant (32 µg/mL) Resistant (160 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 23390 (GenBank: VHG101000070.1)	99.8% sequence identity to <i>A. baumannii</i> , strain MRSN 23390 (GenBank: VHG101000070.1)
Purity (post-freeze)⁴ 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

TEST	SPECIFICATIONS	RESULTS
Viability (post-freeze)	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.

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

⁵*A. baumannii*, strain MRSN 23390 was deposited as sensitive to tetracycline and was found to be resistant in the previous lot but showed a MIC of 3 to 4 µg/mL (interpreted as sensitive) for tetracycline during QC testing. Testing was performed in quadruplicate.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

14 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.

