

Acinetobacter baumannii, Strain MRSN 14193

Catalog No. NR-52191

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 14193 was isolated in 2012 from a human wound sample in Central America as part of a global surveillance program. *A. baumannii*, strain MRSN 14193 was deposited as sensitive to colistin, intermediately resistant to tobramycin, and resistant to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, tetracycline and trimethoprim/sulfamethoxazole. NR-52191 was produced by inoculation of BEI Resources seed lot 70039043 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: 70060662

Manufacturing Date: 17MAY2023

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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 Hardy Diagnostics™ Motility Test Medium with 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 Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Intermediate Resistant | Resistant (96 µg/mL) Resistant (32 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 (6 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (1.5 µg/mL) ⁴ Resistant (≥ 320 µg/mL) |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (1470 base pairs) | ≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 14193 (GenBank: VHGZ01000068.1) | 100% sequence identity to <i>A. baumannii</i> , strain MRSN 14193 (GenBank: VHGZ01000068.1) |

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Purity 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 |
| 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.

⁴*A. baumannii*, strain MRSN 14193 was deposited as intermediately resistant to tobramycin but showed an MIC of 1.5 µg/mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was performed in duplicate.

/Sonia Bjorum Brower/

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06 OCT 2023

Technical Manager or designee, ATCC Federal Solutions

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