

Acinetobacter baumannii, Strain MRSN 11703

Catalog No. NR-52189

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 11703 was isolated in 2007 from a human wound sample in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 11703 was deposited as multi-locus sequence type (MLST) ST 3, sensitive to ampicillin/sulbactam, colistin and imipenem, intermediately resistant to meropenem and resistant to amikacin, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, levofloxacin, tetracycline, tobramycin and trimethoprim/sulfamethoxazole. NR-52189 was produced by inoculation of BEI Resources seed lot 70039041 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: 70060660

Manufacturing Date: 12MAY2023

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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 Ceftriaxone Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Resistant Sensitive Resistant Resistant Resistant Resistant Sensitive Resistant Sensitive Resistant Intermediate Resistant Resistant Resistant	Resistant (64 µg/mL) Sensitive (6 µg/mL) Resistant (32 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 64 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) ⁴ Resistant (≥ 16 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (1 to 1.5 µg/mL)⁵ Resistant (160 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 16 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 11703 (GenBank: VHHH01000055.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 11703 (GenBank: VHHH01000055.1)

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.

⁴Testing was performed on BEI Resources seed lot 70039041.

⁵*A. baumannii*, strain MRSN 11703 was deposited as intermediately resistant to meropenem but showed an MIC of 1 µg/mL to 1.5 µg/mL (interpreted as sensitive) for this lot during QC testing. Testing was performed in duplicate.

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