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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-52187

Acinetobacter baumannii, Strain MRSN 11669

Catalog No. NR-52187

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 11669 was isolated in 2009 from a human urine sample in the United States as part of a global surveillance program. NR-52187 was deposited as multi-locus sequence type (MLST) ST 16, resistant to cefepime, ceftazidime, ciprofloxacin, gentamicin, levofloxacin and trimethoprim/sulfamethoxazole, sensitive to amikacin, colistin, imipenem, meropenem, tobramycin, ampicillin/sulbactam and tetracycline and intermediately resistant to ceftriaxone. NR-52187 was produced by inoculation of BEI Resources seed lot 70040795 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: 70053516 **Manufacturing Date: 16JUN2022**

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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 44°C ± 2°C[1] 1 day in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth
Motility BBL™ Motility Test Medium w/TTC Indicator for 1 day at 35°C in an aerobic atmosphere	Report results	Motile
VITEK® MS (MALDI-TOF)	*A. baumannii*	*A. baumannii* (99.9%)
Antibiotic Susceptibility Profile[2,3]		
Amikacin	Sensitive	Sensitive (12 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (6 µg/mL)
Cefepime	Resistant	Intermediate (12 µg/mL)[4]
Ceftriaxone	Intermediate	Intermediate (32 µg/mL)
Ceftazidime	Resistant	Intermediate (16 µg/mL)[4]
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 µg/mL)[5]
Gentamicin	Resistant	Intermediate (6 to 8 µg/mL)[4]
Imipenem	Sensitive	Sensitive (0.5 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Sensitive	Sensitive (1 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Resistant	Resistant (16 µg/mL)[6]
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 11669 (GenBank: VHHJ01000060.1)	100% sequence identity to *A. baumannii*, strain MRSN 11669 (GenBank: VHHJ01000060.1)
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

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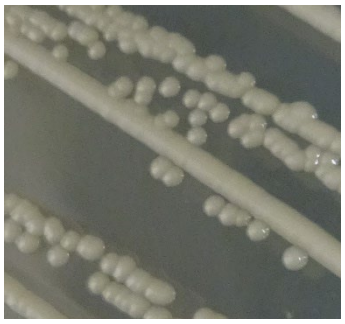
TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

[1]Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus and A. pittii*, which do not grow at 44°C.
[2]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)
[3]Antibiotic susceptibility was tested using a combination of VITEK®2 GN82, Sensititre GNX2F AST and E-test strips.
[4]The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.
[5]Testing was performed on BEI Resources seed lot 70040795.
[6]*A. baumannii*, strain MRSN 11669 was deposited as sensitive to tetracycline, but showed a MIC of 16 µg/ mL (interpreted as resistant) for lot 70040794 during QC testing.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower 30 AUG 2022
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.

Support Provided by NIAID

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