Certificate of Analysis for NR-52246

Acinetobacter baumannii, Strain MRSN 489669

Catalog No. NR-52246

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 489669 was isolated in 2014 from a human respiratory sample in Europe as part of a global surveillance program. NR-52246 was deposited as multi-locus sequence type (MLST) ST 2, resistant to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin and meropenem, intermediately resistant to tobramycin and sensitive to colistin, trimethoprim/sulfamethoxazole, and tetracycline. NR-52246 lot 70059161 was produced by inoculation of the BEI Resources seed lot 70041144 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: 70059161 **Manufacturing Date: 02MAR2023**

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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 Hardy Diagnostics™ Motility Test Medium with TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Report results	Non-motile
VITEK® MS (MALDI-TOF)	*A. baumannii*	*A. baumannii* (99.9%)
Antibiotic Susceptibility Profile[2,3]		
Amikacin	Resistant	Resistant (≥ 256 µg/mL)
Ampicillin/sulbactam	Resistant	Resistant (32 µg/mL)
Cefepime	Resistant	Resistant (≥ 256 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Imipenem	Resistant	Resistant (≥ 32 µg/mL)
Levofloxacin	Resistant	Resistant (32 µg/mL)
Meropenem	Resistant	Resistant (≥ 16 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (0.38 to 0.5 µg/mL)
Tobramycin	Sensitive	Sensitive (2 µg/mL)[4]
Tetracycline	Sensitive	Sensitive (2 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 489669 (GenBank: VHEO01000071.1)	99.9% sequence identity to *A. baumannii*, strain MRSN 489669 (GenBank: VHEO01000071.1)

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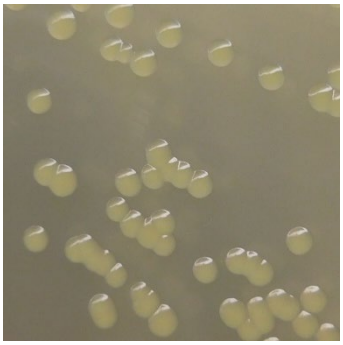
TEST	SPECIFICATIONS	RESULTS
Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability	Growth	Growth

[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 GN81 and E-test strips.
[4]*A. baumannii*, strain MRSN 489669 was deposited intermediately resistant to tobramycin, but showed a MIC of 2 to 3 µg/mL (interpreted as sensitive) for lot 70041143 during QC testing.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/
Sonia Bjorum Brower 12 JUN 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.

Support Provided by NIAID

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