Certificate of Analysis for NR-52226

Acinetobacter baumannii, Strain MRSN 31942

Catalog No. NR-52226

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 31942 was isolated in 2004 from a human in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 31942 was deposited as multi-locus sequence type (MLST) ST 32, sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole and tobramycin, with intermediate resistance to tetracycline. NR-52226 lot 70058034 was produced by inoculation of BEI Resources seed lot 70042849 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: 70058034 **Manufacturing Date: 19JAN2023**

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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 w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere	Non-motile	Non-motile
VITEK® MS (MALDI-TOF)	*A. baumannii*	*A. baumannii* (99.9%)
Antibiotic Susceptibility Profile[2,3]		
Amikacin	Sensitive	Sensitive (1.5 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (0.75 µg/mL)
Cefepime	Sensitive	Sensitive (1 µg/mL)
Ceftriaxone	Sensitive	Intermediate (16 µg/mL)[4]
Ceftazidime	Sensitive	Sensitive (4 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 1 µg/mL)
Imipenem	Sensitive	Sensitive (0.25 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.12 µg/mL)
Meropenem	Sensitive	Sensitive (≤ 0.25 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 20 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Intermediate	Intermediate (8 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 31942 (GenBank: VHFO01000079.1)	99.9% sequence identity to *A. baumannii*, strain MRSN 31942 (GenBank: VHFO01000079.1)
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]Susceptibilty result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

Figure 1: Colony Morphology

/Sonia Bjorum Brower/
Sonia Bjorum Brower 14 MAR 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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