Certificate of Analysis for NR-52210

Acinetobacter baumannii, Strain MRSN 25547

Catalog No. NR-52210

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

Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 25547 was isolated in 2014 from a human wound in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 25547 was deposited as multi-locus sequence type (MLST) ST 2, sensitive to colistin and resistant to amikacin, ceftazidime, ciprofloxacin, ceftriaxone, cefepime, gentamicin, imipenem, trimethoprim/sulfamethoxazole, levofloxacin, meropenem, tobramycin, tetracycline and ampicillin/sulbactam. NR-52210 was produced by inoculation of BEI Resources seed lot 70039050 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: 70055207 Manufacturing Date: 26AUG2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, low 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 37°C in an aerobic atmosphere	Report results	Non-motile
Antibiotic Susceptibility Profile[2,3]		
Amikacin	Resistant	Resistant (≥ 256 µg/mL)
Ampicillin/sulbactam	Resistant	Resistant (≥ 256 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 (≥ 256 µg/mL)
Imipenem	Resistant	Resistant (≥ 32 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Resistant	Resistant (≥ 16 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Tobramycin	Resistant	Intermediate (8 to 12 µg/mL)[4]
Tetracycline	Resistant	Resistant (≥ 256 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1270 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 25547 (GenBank: VHGF01000110.1)	99.9% sequence identity to *A. baumannii*, strain MRSN 25547 (GenBank: VHGF01000110.1)
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
Viability	Growth	Growth

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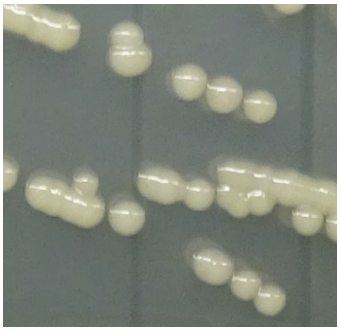
[1]Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.
[2]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)
[3]Antibiotic susceptibility was tested using a combination of VITEK®2 GN81 and E-test strips.
[4]The susceptibility 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 15 AUG 2023
Technical Manager or designee, ATCC Federal Solutions

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