Certificate of Analysis for NR-52175

Acinetobacter baumannii, Strain MRSN 7251

Catalog No. NR-52175

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 7251 was isolated in 2004 from a human wound sample in the USA as part of a global surveillance program. *A. baumannii*, strain MRSN 7251 was deposited as multi-locus sequence type (MLST) ST 32, sensitive to amikacin, colistin, imipenem, levofloxacin, meropenem and trimethoprim/sulfamethoxazole and resistant to cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, ampicillin/sulbactam, tetracycline and tobramycin. NR-52175 was produced by inoculation of the deposited material 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: 70040786 **Manufacturing Date: 06JAN2021**

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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 Remel™ Motility Test Medium w/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	Sensitive	Sensitive (16 µg/mL)
Ampicillin/sulbactam	Resistant	Resistant (24 to 32 µg/mL)
Cefepime	Resistant	Resistant (> 256 µg/mL)
Ceftriaxone	Resistant	Resistant (> 32 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Resistant	Resistant (128 µg/mL)
Imipenem	Sensitive	Sensitive (≤ 1 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 1 µg/mL)
Meropenem	Sensitive	Sensitive (≤ 1 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (< 0.5 µg/mL)
Tobramycin	Resistant	Resistant (32 to 48 µg/mL)
Tetracycline	Resistant	Resistant (> 256 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 7251 (GenBank: VHED01000109.1)	99.9% sequence identity to *A. baumannii*, strain MRSN 7251 (GenBank: VHED01000109.1)
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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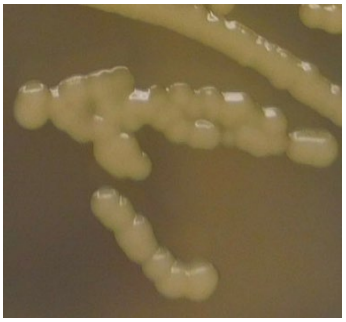
TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

[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.

Figure 1: Colony Morphology



/Heather Couch/
Heather Couch 05 DEC 2021
Program Manager or designee, ATCC Federal Solutions

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