

Certificate of Analysis for NR-52180

Acinetobacter baumannii, Strain MRSN 7576

Catalog No. NR-52180

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 7576 was isolated in 2005 from a human wound sample in the USA as part of a global surveillance program. A. baumannii, strain MRSN 7576 was deposited as multi-locus sequence type (MLST) ST 150, sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tetracycline, tobramycin and trimethoprim/sulfamethoxazole. NR-52180 was produced by inoculation of BEI Resources seed lot 70041738 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: 70062665 Manufacturing Date: 17AUG2023

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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°C1	Growth	Growth
1 day in an aerobic atmosphere on Tryptic Soy agar		
Motility	Report results	Motile
Hardy Diagnostics™ Motility Test Medium with TTC Indicator for 1 day at 37°C in an aerobic atmosphere		
VITEK® MS (MALDI-TOF)	A. baumannii	A. baumannii (99.9%)
Antibiotic Susceptibility Profile ^{2,3}	A. baamaniii	A. badmanini (55.5%)
Amikacin	Sensitive	Sensitive (2 µg/mL)
Ampicillin/sulbactam	Sensitive	Sensitive (1 µg/mL)
Cefepime	Sensitive	Sensitive (1 µg/mL)
Ceftriaxone	Sensitive	Sensitive (2 µg/mL)
Ceftazidime	Sensitive	Sensitive (6 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (4 µg/mL) Sensitive (≤ 0.25 µg/mL)
Colistin	Sensitive	Sensitive (≤ 0.25 μg/mL) ⁴
Gentamicin	Sensitive	Sensitive (≤ 0.23 µg/mL)
Imipenem	Sensitive	Sensitive (2.1 µg/mL)
Levofloxacin	Sensitive	Sensitive (0.36 μg/mL) Sensitive (≤ 0.12 μg/mL)
Meropenem	Sensitive	Sensitive (≤ 0.12 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 0.23 μg/mL)
·	Sensitive	` ,
Tobramycin	==::=::::	Sensitive (≤ 1 µg/mL)
Tetracycline	Intermediate	Sensitive (1.5 to 2 μg/mL) ⁵
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	≥ 99% sequence identity to A. baumannii, strain MRSN 7576 (GenBank: VHGC01000093.1)	99.9% sequence identity to A. baumannii, strain MRSN 7576 (GenBank: VHGC01000093.1)

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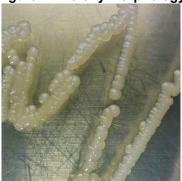


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TEST	SPECIFICATIONS	RESULTS
Purity 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood		Growth consistent with expected colony morphology ⁶
Viability	Growth	Growth

¹Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

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Technical Manager or designee, ATCC Federal Solutions

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²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

³Antibiotic susceptibility was tested using a combination of VITEK®2 GN81 and E-test strips.

⁴Testing was performed on BEI Resources seed lot 70041738.

⁵A. baumannii, strain MRSN 7576 was deposited as sensitive to tetracycline and was found to be intermediately resistant for lot 70041737, but showed a MIC of 1.5 to 2 μg/mL (interpreted as sensitive) for lot 70062665 during QC testing. Testing was performed in duplicate.

⁶Two colony types (CT) were observed (CT1: circular, entire, convex, smooth and cream; CT2: circular, entire, convex, smooth and white). Plating of the individual colony types showed that they did not revert to the mixed colony type. VITEK[®] MS (MALDI-TOF) analysis identified cells from both colony types as *A. baumannii*.