

Acinetobacter baumannii, Strain MRSN 29908

Catalog No. NR-52211

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Product Description:

Acinetobacter baumannii (*A. baumannii*), strain MRSN 29908 was isolated in 2015 from a human sample in the United States as part of a global surveillance program. *A. baumannii*, strain MRSN 29908 was deposited as sensitive to ceftazidime and colistin, intermediately resistant to ceftriaxone and resistant to amikacin, ampicillin/sulbactam, cefepime, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, tetracycline, trimethoprim/sulfamethoxazole and tobramycin. NR-52211 lot 70039051 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: 70039051

Manufacturing Date: 11SEP2020

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Growth at 44°C ± 2°C ¹ 1 day in an aerobic atmosphere on Tryptic Soy agar Motility Remel™ Motility Test Medium w/TTC Indicator for 1 day at 37°C in an aerobic atmosphere VITEK® MS (MALDI-TOF)	Gram-negative rods Report results Growth Report results <i>A. baumannii</i>	Gram-negative rods Circular, convex, entire, smooth and cream (Figure 1) Growth Non-motile <i>A. baumannii</i> (99.9%)
Antibiotic Susceptibility Profile^{2,3} Amikacin Ampicillin/sulbactam Cefepime Ceftriaxone Ceftazidime Ciprofloxacin Colistin Gentamicin Imipenem Levofloxacin Meropenem Trimethoprim/sulfamethoxazole Tobramycin Tetracycline	Resistant Resistant Resistant Intermediate Sensitive Resistant Sensitive Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant	Resistant (> 256 µg/mL) Resistant (48 to 64 µg/mL) Resistant (48 to 64 µg/mL) Intermediate (32 µg/mL) Resistant (64 µg/mL) ⁴ Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Resistant (≥ 16 µg/mL) Resistant (> 8 µg/mL) Resistant (> 8 µg/mL) Resistant (> 8 µg/mL) Resistant (> 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (> 256 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1480 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 29908 (GenBank: VHGD01000064.1)	99.9% sequence identity to <i>A. baumannii</i> , strain MRSN 29908 (GenBank: VHGD01000064.1)
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

TEST	SPECIFICATIONS	RESULTS
Viability	Growth	Growth

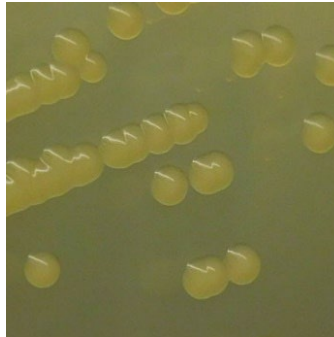
¹Growth at 44°C differentiates *A. baumannii* from *A. calcoaceticus* and *A. pittii*, which do not grow at 44°C.

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

³Antibiotic susceptibility was tested using a combination of VITEK[®]2 GN82, Sensititre GNX2F AST and E-test strips.

⁴*A. baumannii*, strain MRSN 29908 was deposited as being sensitive to ceftazidime. Repeated antibiotic susceptibility testing determined that for strain MRSN 29908, the ceftazidime MIC is 64 µg per mL, which is interpreted as resistant. Testing was performed in duplicate.

Figure 1: Colony Morphology



/Heather Couch/

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Program Manager or designee, ATCC Federal Solutions

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