

Acinetobacter baumannii, Strain MRSN 31947

Catalog No. NR-52227

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Product Description:

Acinetobacter baumannii (*A. baumannii*), MRSN 31947 was isolated in 2004 from a human in Europe as part of a global surveillance program. *A. baumannii*, strain MRSN 31947 was deposited as multi-locus sequence type (MLST) ST 32, sensitive to amikacin, colistin, ampicillin/sulbactam, cefepime, ceftazidime, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin, trimethoprim/sulfamethoxazole and tetracycline and intermediately resistant to ceftriaxone. NR-52227 was produced by inoculation of BEI Resources seed lot 70042851 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: 70062657

Manufacturing Date: 17AUG2023

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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 Hardy Diagnostics™ Motility Test Medium with 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, low 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	Sensitive Sensitive Sensitive Resistant Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Report results	Sensitive (8 µg/mL) Sensitive (1.5 µg/mL) Sensitive (4 µg/mL) Intermediate (32 µg/mL) ^{4,5} Sensitive (3 µg/mL) Sensitive (1 µg/mL) Sensitive (≤ 0.25 µg/mL) ⁶ Sensitive (≤ 1 µg/mL) Sensitive (0.38 µg/mL) Sensitive (0.25 µg/mL) Sensitive (0.5 µg/mL) Sensitive (≤ 20 µg/mL) Sensitive (≤ 1 µg/mL) Intermediate (6 µg/mL) ⁷
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	≥ 99% sequence identity to <i>A. baumannii</i> , strain MRSN 31947 (GenBank: VHFN01000065.1)	100% sequence identity to <i>A. baumannii</i> , strain MRSN 31947 (GenBank: VHFN01000065.1)
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

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 GN81 and E-test strips.

⁴*A. baumannii*, strain MRSN 31947 was deposited as intermediately resistant to ceftriaxone and was found to be resistant for lot 70042850, but showed a MIC of 32 µg/mL (interpreted as intermediately resistant) for lot 70062657 during QC testing.

⁵The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

⁶Testing was performed on BEI Resources seed lot 70042851.

⁷*A. baumannii*, strain MRSN 31947 was deposited as sensitive to tetracycline but showed MICs of 8 µg/mL (interpreted as intermediately resistant) and 12 µg/mL (interpreted as resistant) for lot 70042850 during QC testing, resulting in an inconclusive result.

Figure 1: Colony Morphology



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