

Certificate of Analysis for NR-52167

Acinetobacter baumannii, Strain MRSN 5969

Catalog No. NR-52167

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Product Description:

Acinetobacter baumannii (A. baumannii), MRSN 5969 was isolated in 2011 from a human wound sample in Europe as part of a global surveillance program. A. baumannii, strain MRSN 5969 was deposited as sensitive to amikacin, ampicillin/sulbactam, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, colistin, gentamicin, imipenem, levofloxacin, meropenem, tobramycin, trimethoprim/sulfamethoxazole and tetracycline. NR-52167 lot 70041726 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: 70041726 Manufacturing Date: 03FEB2021

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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 (8 µg/mL) |
| Ampicillin/sulbactam | Sensitive | Sensitive (1 µg/mL) |
| Cefepime | Sensitive | Sensitive (1.5 µg/mL) |
| Ceftriaxone | Sensitive | Sensitive (8 µg/mL) |
| Ceftazidime | Sensitive | Sensitive (4 µg/mL) |
| Ciprofloxacin | Sensitive | Sensitive (≤ 0.5 µg/mL) |
| Colistin | Sensitive | Sensitive (≤ 0.25 μg/mL) |
| Gentamicin | Sensitive | Sensitive (≤ 1 µg/mL) |
| Imipenem | Sensitive | Sensitive (≤ 1 µg/mL) |
| Levofloxacin | Sensitive | Sensitive (≤ 1 µg/mL) |
| Meropenem | Sensitive | Sensitive (≤ 1 µg/mL) |
| Trimethoprim/sulfamethoxazole | Sensitive | Sensitive (≤ 1 µg/mL) |
| Tobramycin | Sensitive | Sensitive (≤ 1 µg/mL) |
| Tetracycline | Sensitive | Resistant (> 256 µg/mL) ⁴ |
| Genotypic Analysis | | |
| Sequencing of 16S ribosomal RNA gene (~ 1110 base pairs) | ≥ 99% sequence identity to A. baumannii, strain MRSN 5969 (GenBank: VHEL01000119.1) | 99.8% sequence identity to A. baumannii, strain MRSN 5969 (GenBank: VHEL01000119.1) |
| Purity | Growth consistent with expected | Growth consistent with expected |
| 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar | colony morphology | 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.

Figure 1: Colony Morphology



/Heather Couch/ Heather Couch

08 FEB 2022

Program 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 GN82, Sensititre™ GNX2F AST and E-test strips.

⁴A. baumannii, strain MRSN 5969 was deposited as sensitive to tetracycline, but showed a MIC of > 256 μg per mL (interpreted as resistant) for this antibiotic during QC testing. Testing was performed in duplicate.