Certificate of Analysis for NR-52194

Acinetobacter baumannii, Strain MRSN 15049

Catalog No. NR-52194

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Product Description:

Acinetobacter baumannii (A. baumannii), strain MRSN 15049 was isolated in 2013 from a respiratory specimen in Asia as part of a global surveillance program. *A. baumannii*, strain MRSN 15049 was deposited as sensitive to colistin and tobramycin, resistant to amikacin, cefepime, ceftazidime, ceftriaxone, ciprofloxacin, gentamicin, imipenem, levofloxacin, meropenem, trimethoprim/sulfamethoxazole and tetracycline, and intermediately resistant to ampicillin/sulbactam. NR-52194 was produced by inoculation of BEI Resources seed lot 70039046 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: 70055204 **Manufacturing Date: 24AUG2022**

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative coccobacillus	Gram-negative coccobacillus
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 BBL™ 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	Resistant	Resistant (≥ 256 µg/mL)
Ampicillin/sulbactam	Intermediate	Sensitive (4 µg/mL)[4]
Cefepime	Resistant	Resistant (≥ 256 µg/mL)
Ceftriaxone	Resistant	Resistant (≥ 64 µg/mL)
Ceftazidime	Resistant	Resistant (≥ 64 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Sensitive	Sensitive (4 µg/mL)[5]
Imipenem	Resistant	Resistant (12 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Meropenem	Resistant	Resistant (≥ 16 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Tobramycin	Sensitive	Sensitive (≤ 1 µg/mL)
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (1500 base pairs)	≥ 99% sequence identity to *A. baumannii*, strain MRSN 15049 (GenBank: VHGW01000106.1)	99.8% sequence identity to *A. baumannii*, strain MRSN 15049 (GenBank: VHGW01000106.1)
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 GN81 and E-test strips.
[4]*A. baumannii*, strain MRSN 15049 was deposited as intermediately resistant to ampicillin/sulbactam but showed a MIC of 4 µg/mL (interpreted as sensitive) for this antibiotic during QC testing.
[5]*A. baumannii*, strain MRSN 15049 was deposited as resistant to gentamicin, but was found to be sensitive in the previous lot. Lot 70055200 showed a MIC of 4 µg/mL (interpreted as sensitive) for this antibiotic during QC testing.

Figure 1: Colony Morphology

/Sonia Bjorum Brower/
Sonia Bjorum Brower 13 SEP 2023
Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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