

Certificate of Analysis for NR-50367

Staphylococcus aureus, Strain JM46061

Catalog No. NR-50367

Product Description: Staphylococcus aureus (S. aureus), strain JM46061 is from an unknown origin.

Lot¹: 64373892 Manufacturing Date: 08APR2016

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, low convex, entire, smooth
constructing,		and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ²	Report results	β-hemolytic
Biochemical characterization	.,	P
Catalase	Positive	Positive
Coagulase ³	Report results	Positive
VITEK® 2 Compact (GP card)	≥ 90% probability of being <i>S. aureu</i> s	S. aureus (96% probability) ⁴
Antibiotic Susceptibility Profile		
VITEK® (AST-GP71 card) ⁵		
Beta-lactamase ⁶	Report results	Positive
Cefoxitin screen	Report results	Positive
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)
Oxacillin	Report results	Resistant (≥ 4 µg/mL)
Gentamicin	Report results	Sensitive (≤ 0.5 µg/mL)
Ciprofloxacin	Report results	Sensitive (≤ 0.5 μg/mL)
Levofloxacin	Report results	Sensitive (≤ 0.25 µg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 μg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Resistant (≥ 8 μg/mL)
Clindamycin	Report results	Sensitive (≤ 0.25 μg/mL)
Quinupristin/dalfopristin	Report results	Sensitive (≤ 0.25 μg/mL)
Linezolid	Report results	Sensitive (= 2 µg/mL)
Daptomycin	Report results	Sensitive (= 0.25 µg/mL)
Vancomycin	Report results	Sensitive (≤ 1 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 μg/mL)
Tetracycline	Report results	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 μg/mL) ⁷
Nitrofurantoin	Report results	Sensitive (≤ 16 µg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 μg/mL)
Trimethoprim/sulfamethoxazole	Report results	Sensitive (≤ 10 μg/mL)
Etest® antibiotic test strips8		
Chloramphenicol ⁹	Report results	Sensitive (≤ 8 μg/mL)
Teicoplanin ⁹	Report results	Sensitive (= 1.5 μg/mL)
Genotypic Analysis	> 00%	1000/
Sequencing of 16S ribosomal RNA gene	≥ 99% sequence identity to <i>S. aureus</i>	100% sequence identity to <i>S. aureus</i>
(~ 1490 base pairs)	type strain (GenBank: L37597)	type strain (GenBank: L37597)
Purity (post-freeze) ¹⁰	Consistent with expected colony	Consistent with expected colony
, ,	morphology	morphology
Viability (post-freeze) ²	Growth	Growth

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SUPPORTING INFECTIOUS DISEASE RESEARCH

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¹NR-50367 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

⁴Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. For additional information, please refer to O'Hara, C.M. and J. M. Miller. "Evaluation of the Vitek 2 ID-GNB Assay for Identification of Members of the Family Enterobacteriaceae and Other Nonenteric Gram-Negative Bacilli and Comparison with the Vitek GNI+ Card." J. Clin. Microbiol. 41 (2003): 2096-2101. PubMed: 12734254.

⁵Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁶The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

⁷MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

81 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

⁹For both chloramphenicol (bioMérieux Etest® 412308) and teicoplanin (bioMérieux Etest® 412459), a MIC ≤ 8 μg/mL is sensitive, a MIC = 16 μg/mL is intermediate and a MIC ≥ 32 μg/mL is resistant.

¹⁰Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.



Figure 1: Colony Morphology

Date: 03 AUG 2016

Signature:

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