

Certificate of Analysis for NR-45924

Staphylococcus aureus, Strain SA LinR #12

Catalog No. NR-45924

Product Description:

Staphylococcus aureus (S. aureus), strain SA LinR #12 was isolated in 2001 from an 85-year-old male with dialysis-associated peritonitis in Massachusetts, USA. NR-45924 lot 70054856 was produced by the inoculation of BEI Resources seed lot 62990913 into Tryptic Soy broth and incubated for 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. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70054856 Manufacturing Date: 10AUG2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, convex, entire, smooth and
1 day at 37°C in an aerobic atmosphere on	·	white (Figure 1)
Tryptic Soy agar		
Motility (wet mount)	Report results	Non-motile
Hemolysis	Report results	β-hemolytic
1 day at 37°C in an aerobic atmosphere on		
Tryptic Soy agar with 5% defibrinated		
sheep blood		
Biochemical characterization		
Catalase	Positive	Positive
Coagulase ¹	Report results	Positive
VITEK® 2 Compact (GP card)	S. aureus (≥ 89.9%)	S. aureus (99% probability)
Antibiotic Susceptibility Profile ²		
VITEK® (AST-GP78 card)		
Beta-lactamase ³	Positive	Positive
Cefoxitin screen	Positive	Positive
Ceftaroline	Report results	Sensitive (= 0.5 µg/mL)
Benzylpenicillin	Resistant	Resistant (≥ 0.5 µg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Resistant	Resistant (≥ 16 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Resistant	Resistant (≥ 8 μg/mL)
Moxifloxacin	Resistant	Resistant (= 4 µg/mL)
Clindamycin (inducible resistance)	Negative	Negative
Erythromycin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Daptomycin	Sensitive	Sensitive (= 0.5 µg/mL)
Vancomycin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Minocycline	Sensitive	Sensitive (= 1 µg/mL)
Tetracycline	Resistant	Resistant (≥ 16 μg/mL)
Tigecycline	Sensitive	Sensitive (≤ 0.12 μg/mL) ⁴
Nitrofurantoin	Sensitive	Sensitive (≤ 16 μg/mL)
Rifampicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)

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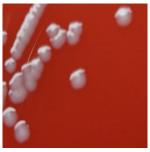


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TEST	SPECIFICATIONS	RESULTS
Etest [®] antibiotic test strips 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Intermediate	Intermediate (= 24 µg/mL)
Clindamycin	Intermediate	Sensitive (= 0.38 μg/mL) ⁵
Linezolid	Resistant	Resistant (= 16 μg/mL)
Quinupristin-dalfopristin	Sensitive	Sensitive (= 0.25 µg/mL)
Teicoplanin	Sensitive	Sensitive (= 1.5 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	≥ 99% sequence identity to S. aureus, type strain (GenBank: L37597.1)	99.9% sequence identity to S. aureus, type strain (GenBank: L37597.1)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze) 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar	Growth	Growth

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

Figure 1: Colony Morphology



/Sonia Bjorum Brower/ Sonia Bjorum Brower

07 JUL 2023

Technical Manager or designee, ATCC Federal Solutions

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²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

³The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

⁴MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

⁵S. aureus, strain SA Lin #12 was deposited as intermediate to clindamycin but showed a MIC of 0.38 μg per mL (interpreted as sensitive) for this antibiotic during QC testing.