

Certificate of Analysis for NR-46424

Staphylococcus aureus, Strain 1202582

Catalog No. NR-46424

Product Description:

Staphylococcus aureus (S. aureus), strain 1202582 was isolated in 2012 in Delaware, USA, from a chronic foot wound of a 70-year-old male with possible osteomyelitis and who had recently received a 6-week course of vancomycin therapy. S. aureus, strain 1202582 is a vancomycin-resistant S. aureus (VRSA) strain. NR-46424 lot 70054136 was produced by inoculation of the deposited material into Brain Heart Infusion broth with 6µg/mL vancomycin and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Brain Heart Infusion agar with 6µg/mL vancomycin 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: 70054136 Manufacturing Date: 22JUL2022

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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 cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis	β-hemolytic	β-hemolytic
Biochemical characterization		
Catalase	Positive	Positive
Coagulase ¹	Positive	Positive
VITEK® 2 Compact (GP card)	S. aureus (≥ 89%)	S. aureus (99%)
VITEK® MS (MALDI-TOF)	S. aureus	S. aureus (99.9%)
Antibiotic Susceptibility Profile ²		
VITEK® (AST-GP78 card)		
Beta-lactamase	Report results	Positive
Cefoxitin screen	Report results	Positive
Benzylpenicillin	Resistant	Resistant (≥ 0.5 µg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Ceftaroline	Report results	Sensitive (0.5 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 μg/mL)
Levofloxacin	Report results	Resistant (4 µg/mL)
Moxifloxacin	Report results	Intermediate (1 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Resistant	Resistant (≥ 8 μg/mL)
Clindamycin	Resistant	Resistant (≥ 4 µg/mL)
Linezolid	Sensitive	Sensitive (1 µg/mL)
Daptomycin	Sensitive	Sensitive (0.25 µg/mL)
Vancomycin	Resistant	Resistant (≥ 32 μg/mL)
Minocycline	Report results	Sensitive (4 µg/mL)
Tetracycline	Report results	Resistant (≥ 16 μg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 µg/mL) ³
Nitrofurantoin	Report results	Sensitive (≤ 16 μg/mL)
Rifampicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 μg/mL)

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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	Report results	Sensitive (4 µg/mL)
Teicoplanin	Sensitive	Intermediate (16 µg/mL) ⁴
Quinupristin-dalfopristin	Sensitive	Sensitive (0.094 μg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	≥ 99% sequence identity to S. aureus type strain (GenBank: L37597)	100% sequence identity to S. aureus type strain (GenBank: L37597)
Purity (post-freeze)	Growth consistent with expected	Growth consistent with expected
8 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	colony morphology	colony morphology
Viability (post-freeze)	Growth	Growth

¹¹⁴ 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

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Technical Manager or designee, ATCC Federal Solutions

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²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018) ³MIC Interpretation Guideline: EUCAST Version 12.0 (2022)

⁴The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.