

Certificate of Analysis for NR-46054

Staphylococcus aureus, Strain HT 20020396

Catalog No. NR-46054

Product Description:

Staphylococcus aureus (S. aureus), strain HT 20020396 was isolated in 2002 from the respiratory specimen of a male outpatient in France. S. aureus, strain HT 20020396 was deposited to BEI Resources as part of the NARSA collection. NR-46054 was produced by inoculation of the BEI Resources seed lot 70039300 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 with 5% defibrinated sheep blood, 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: 70057444 Manufacturing Date: 21DEC2022

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, low convex, entire,
1 day at 37°C in an aerobic atmosphere on		smooth and cream
Tryptic Soy agar		
Motility (wet mount)	Report results	Non-motile
Hemolysis	Report results	β-hemolytic
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)		
Benzylpenicillin	Resistant	Resistant (≥ 0.25 µg/mL)
Beta-lactamase ³	Positive	Positive
Cefoxitin screen	Negative	Negative
Ceftaroline	Report results	Sensitive (≤ 0.06 μg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Clindamycin	Sensitive	Sensitive (0.25 µg/mL)
Clindamycin (inducible resistance)	Negative	Negative
Daptomycin	Sensitive	Sensitive (0.5 μg/mL)
Erythromycin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Levofloxacin	Sensitive	Sensitive (≤ 0.12 μg/mL)
Linezolid	Sensitive	Sensitive (2 µg/mL)
Minocycline	Sensitive	Sensitive (≤ 0.5 µg/mL)
Moxifloxacin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Nitrofurantoin	Sensitive	Sensitive (32 µg/mL)
Oxacillin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Rifampicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)
Tigecycline	Sensitive	Sensitive (≤ 0.12 μg/mL) ⁴
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Vancomycin	Sensitive	Sensitive (1 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	Sensitive	Sensitive (3.0 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (0.38 µg/mL)
Teicoplanin	Sensitive	Sensitive (1 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 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) 7 days at 37°C in an aerobic atmosphere with and without 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)	Growth	Growth

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

/Sonia Bjorum Brower/ Sonia Bjorum Brower

27 MAR 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)