

## **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 deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with defibrinated sheep blood 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: 70039299 Manufacturing Date: 18SEP2020

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology	Report results	Circular, low convex, entire, smooth
	<b>.</b>	and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis	Report results	β-hemolytic
Biochemical characterization Catalase	Positive	Positive
Coagulase	Report results	Positive
VITEK® 2 Compact (GP card)	S. aureus (≥ 89.9%)	S. aureus (99% probability)
. , ,	3. aureus (2 69.9%)	S. aureus (99% probability)
Antibiotic Susceptibility Profile¹ Cefinase™ Paper Disc		
Beta-lactamase	Report results	Positive
Etest® antibiotic test strips	Report results	1 Osluve
1 day at 35°C in an aerobic atmosphere on		
Mueller Hinton agar		
Chloramphenicol	Report results	Sensitive (= 3 µg/mL)
Teicoplanin	Sensitive	Sensitive (= 0.75 μg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (= 0.75 μg/mL)
VITEK <sup>®</sup> AST-GP78 card		
Cefoxitin screen	Report results	Negative
Benzylpenicillin	Report results	Resistant (≥ 0.5 μg/mL)
Oxacillin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Levofloxacin	Report results	Sensitive (≤ 0.12 μg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 μg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Clindamycin	Sensitive	Sensitive (= 0.25 μg/mL)
Linezolid	Sensitive	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	Resistant (≥ 16 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 μg/mL) <sup>2</sup>
Nitrofurantoin	Report results	Sensitive (= 32 μg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 μg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)

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TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1500 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) 8 days at 37°C in an aerobic atmosphere with 5% CO2 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

<sup>&</sup>lt;sup>1</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

Figure 1: Colony Morphology



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Program Manager or designee, ATCC Federal Solutions

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<sup>&</sup>lt;sup>2</sup>MIC Interpretation Guideline: EUCAST Version 8.0 (2018)