

Staphylococcus aureus, Strain HT 20020344
Catalog No. NR-46043
Product Description:

Staphylococcus aureus (*S. aureus*), strain HT 20020344 was isolated in 2002 from a human blood sample of a female with bullous impetigo in France. NR-46043 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 5% 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: 70062938
Manufacturing Date: 31AUG2023

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) Hemolysis Biochemical characterization Catalase Coagulase 4 hours at 37°C in an aerobic atmosphere in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827) VITEK® MS (MALDI-TOF)	Gram-positive cocci Report results Report results β-hemolytic Positive Positive <i>S. aureus</i>	Gram-positive cocci Circular, low convex, entire, smooth and white (Figure 1) Non-motile β-hemolytic Positive Positive <i>S. aureus</i> (99.9%)
Antibiotic Susceptibility Profile¹ DrySlide™ Nitrocefin Beta-lactamase VITEK® (AST-GP78 card) Benzylpenicillin Cefoxitin screen Ceftaroline Ciprofloxacin Clindamycin Clindamycin (inducible resistance) Daptomycin Gentamicin Levofloxacin Linezolid Minocycline Moxifloxacin Nitrofurantoin Oxacillin Rifampicin Tetracycline Tigecycline Trimethoprim/sulfamethoxazole Vancomycin	Report results Resistant Report results Report results Sensitive Sensitive Report results Report results Sensitive Report results Sensitive Report results Sensitive Report results Report results Report results Sensitive Report results Report results Sensitive Report results Report results Sensitive Sensitive	Positive Resistant (≥ 0.5 µg/mL) Negative Sensitive (0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (0.25 µg/mL) Negative Sensitive (0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.12 µg/mL) ² Sensitive (≤ 10 µg/mL) Sensitive (≤ 0.5 µg/mL)

Certificate of Analysis for NR-46043

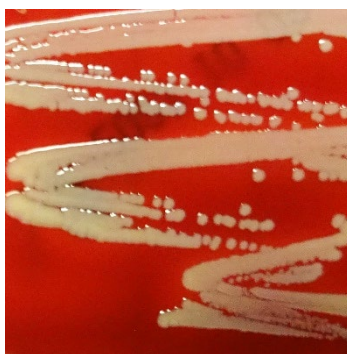
TEST	SPECIFICATIONS	RESULTS
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar Chloramphenicol Erythromycin Quinupristin/dalfopristin Teicoplanin	Report results Intermediate Sensitive Sensitive	Sensitive (3 µg/mL) Sensitive (0.19 to 0.25 µg/mL) ³ Sensitive (0.25 µg/mL) Sensitive (0.75 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1450 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597.1)	99.9% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597.1)
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

¹Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

²MIC Interpretation Guideline: EUCAST Version 12.0 (2022)

³*S. aureus*, strain HT 20020344 was deposited as intermediately resistant to erythromycin but showed a MIC of 0.19 µg/mL to 0.25 µg/mL (interpreted as sensitive) for this antibiotic during QC testing. Testing was conducted in duplicate.

Figure 1: Colony Morphology



/Sonia Bjorum Brower/

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