

Staphylococcus aureus, Strain C1999000529
Catalog No. NR-45993
Product Description:

Staphylococcus aureus (*S. aureus*), strain C1999000529 was isolated in 1999 from pleural fluid of a 1-year-old male intensive care unit patient with necrotizing pneumonia and severe sepsis in North Dakota, USA. NR-45993 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: 70062937
Manufacturing Date: 25AUG2023

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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, convex, entire, smooth and cream (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 Erythromycin 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 Sensitive Report results Sensitive Report results Report results Report results Resistant Report results Report results Report results Sensitive Sensitive	Positive Resistant (≥ 0.5 µg/mL) Positive Sensitive (0.5 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (0.25 µg/mL) Negative Sensitive (1 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (0.25 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 16 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) ² Sensitive (≤ 10 µg/mL) Sensitive (1 to 2 µg/mL)

Certificate of Analysis for NR-45993

TEST	SPECIFICATIONS	RESULTS
Etest® antibiotic test strips 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar Chloramphenicol Quinupristin/dalfopristin Teicoplanin	Report results Sensitive Sensitive	Sensitive (4 µg/mL) Sensitive (0.25 µg/mL) Sensitive (1 to 1.5 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> , strain NRS194 (GenBank: CAIHBS010000001.1)	99.9% sequence identity to <i>S. aureus</i> , strain NRS194 (GenBank: CAIHBS010000001.1)
Purity (post-freeze) 8 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)

Figure 1: Colony Morphology



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