

Staphylococcus aureus, Strain Reynolds

Catalog No. NR-45908

Product Description:

Staphylococcus aureus (*S. aureus*), strain Reynolds was isolated in 1979 from a human blood culture in North Hollywood, California, USA. Strain Reynolds is a capsule-producing methicillin-sensitive *S. aureus* (MSSA) strain and is the prototype strain for type 5 capsular polysaccharide. It was deposited as resistant to penicillin and having spontaneous streptomycin-resistance. NR-45908 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: 62363095

Manufacturing Date: 06FEB2014

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) Hemolysis Biochemical characterization Catalase Coagulase ¹ Beta-lactamase ² VITEK® 2 Compact (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results Report results <i>S. aureus</i> (≥ 89.9%)	Gram-positive cocci Circular, low convex, entire, smooth and cream (Figure 1) Non-motile β-hemolytic Positive Positive Positive <i>S. aureus</i> (99% probability)
Antibiotic Susceptibility Profile³ Etest® antibiotic test strips ⁴ 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar Benzylpenicillin Gentamicin Ciprofloxacin Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Vancomycin Trimethoprim/sulfamethoxazole Chloramphenicol Teicoplanin ⁵ Oxacillin screen 1 day at 30°C in an aerobic atmosphere on Mueller Hinton agar containing 6 µg/mL oxacillin and 4% NaCl (Oxacillin Screen Agar BBL™ 221952)	Report results Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Report results Sensitive Sensitive	Resistant (≥ 32 µg/mL) Sensitive (0.5 µg/mL) Sensitive (0.19 to 0.25 µg/mL) Sensitive (0.064 µg/mL) Sensitive (0.023 µg/mL) Sensitive (0.38 µg/mL) Sensitive (1 µg/mL) Sensitive (1.5 µg/mL) Sensitive (0.094 µg/mL) Sensitive (2.0 µg/mL) Sensitive (1.0 µg/mL) Sensitive

Certificate of Analysis for NR-45908

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1460 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	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)

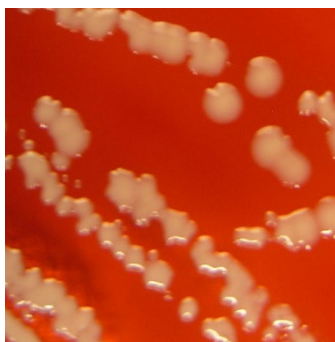
²The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

³Due to its capsular nature, the use of automated susceptibility testing systems is not recommended for this strain.

⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁵MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

Figure 1: Colony Morphology



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16 JAN 2024

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