

Staphylococcus aureus, Strain NRS118

Catalog No. NR-45923

Product Description: *Staphylococcus aureus* (*S. aureus*), strain NRS118 was isolated in April 2002 from a 26-year-old female kidney transplant ICU inpatient in California, USA. *S. aureus*, strain NRS118 was deposited as a vancomycin-intermediate *S. aureus* (VISA) strain.

Lot¹: 70011780

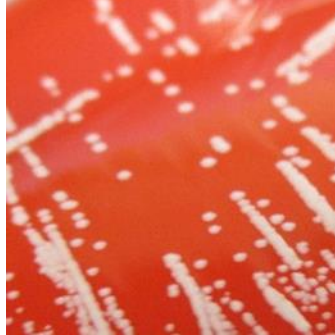
Manufacturing Date: 02FEB2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ² Biochemical characterization Catalase Coagulase ³ VITEK [®] 2 Compact (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results <i>S. aureus</i> (≥ 89%)	Gram-positive cocci Circular, low convex, entire, smooth and white (Figure 1) Non-motile Non-hemolytic Positive Positive <i>S. aureus</i> (98%)
Antibiotic Susceptibility Profile⁴ VITEK [®] (AST-GP71 card) Beta-lactamase ⁵ Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Daptomycin Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁷ Chloramphenicol Teicoplanin	Report results Report results Report results Resistant Resistant Resistant Resistant Report results Report results Report results Report results Resistant Resistant Sensitive Sensitive Non-susceptible Intermediate Report results Report results Report results Report results Report results Sensitive Report results Sensitive	Negative Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (= 4 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.25 µg/mL) Sensitive (= 2 µg/mL) Non-susceptible (= 4 µg/mL) Intermediate (= 4 µg/mL) Sensitive (= 2 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.12 µg/mL) ⁶ Sensitive (≤ 16 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (≤ 10 µg/mL) Sensitive (= 8 µg/mL) Sensitive (= 6 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 950 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597)	99.9% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597) ⁸
Purity (post-freeze)⁹	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹*S. aureus*, strain NRS118 was deposited to BEI Resources as part of the NARSA collection. NR-45923 was produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. The material from the initial growth was passaged once on Tryptic Soy broth 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 1 day at 37°C in an aerobic atmosphere to produce this lot.

- ²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
- ³4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
- ⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- ⁵The production of beta-lactamase was tested using a Cefinase™ Paper Disc (BBL™ 231650).
- ⁶MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
- ⁷1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ⁸Also consistent with other *Staphylococcus* species
- ⁹Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar.

Figure 1: Colony Morphology



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Program Manager or designee, ATCC Federal Solutions

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