

Staphylococcus aureus, Strain NRS126

Catalog No. NR-45929

Product Description: *Staphylococcus aureus* (*S. aureus*), strain NRS126 was isolated in December 2000 from an inpatient in Massachusetts, USA. *S. aureus*, strain NRS126 was deposited as a vancomycin-intermediate *S. aureus* (VISA) strain.

Lot¹: 70011782

Manufacturing Date: 12JAN2018

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ³ Biochemical characterization Catalase Coagulase ⁴ VITEK [®] 2 Compact (GP card) VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Report results Positive Report results <i>S. aureus</i> (≥ 89%) <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> (92%) <i>S. aureus</i> (99.9%)
Antibiotic Susceptibility Profile⁵ VITEK [®] (AST-GP71 card) Beta-lactamase ⁶ 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 ⁸ Chloramphenicol Teicoplanin Vancomycin	Report results Report results Report results Resistant Sensitive Resistant Report results Report results Report results Report results Resistant Resistant Sensitive Sensitive Susceptible Intermediate Report results Report results Report results Report results Report results Sensitive Report results Sensitive Intermediate	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (= 4 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (= 4 µg/mL) Susceptible (= 1 µg/mL) Intermediate (= 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) ⁷ Sensitive (≤ 16 µg/mL) Intermediate (= 2 µg/mL) Sensitive (≤ 10 µg/mL) Sensitive (= 4 µg/mL) Sensitive (= 1.5 µg/mL) Intermediate (= 3 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 870 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597)	100% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597) ⁹
Purity (post-freeze)¹⁰	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹*S. aureus*, strain NRS126 was deposited to BEI Resources as part of the NARSA collection. NR-45929 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar 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

³1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁴4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

⁵Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁶The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

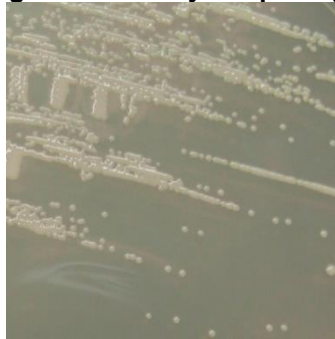
⁷MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

⁸1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

⁹Also consistent with other *Staphylococcus* species

¹⁰Purity of this lot was assessed for 7 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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