

Staphylococcus epidermidis, Strain 01-004-2919

Catalog No. NR-45888

Product Description:

Staphylococcus epidermidis (*S. epidermidis*), strain 01-004-2919 was isolated in January 2001 from the peritoneal fluid of a 31-year-old male in Pennsylvania, USA. *S. epidermidis*, strain 01-004-2919 is a vancomycin-intermediate *S. epidermidis* strain (VISE). NR-45888 was produced by inoculation of seed lot 63406790 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 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: 70049132

Manufacturing Date: 03DEC2021

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TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount) Hemolysis Biochemical characterization Catalase Coagulase ¹ VITEK [®] 2 Compact (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results <i>S. epidermidis</i> (≥ 89.9%)	Gram-positive cocci Circular, convex, entire, smooth and white (Figure 1) Non-motile Non-hemolytic Positive Negative <i>S. epidermidis</i> (95%)
Antibiotic Susceptibility Profile² VITEK [®] (AST-GP78 card) Benzylpenicillin Beta-lactamase ³ Cefoxitin screen Clindamycin Clindamycin (inducible resistance) Erythromycin Gentamicin Linezolid Minocycline Nitrofurantoin Oxacillin Rifampin Tetracycline Tigecycline Vancomycin	Resistant Negative Positive Resistant Negative Resistant Resistant Resistant Sensitive Sensitive Sensitive Resistant Resistant Sensitive Sensitive Intermediate	Resistant (≥ 0.5 µg/mL) Positive⁴ Positive Resistant (≥ 4 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (2 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 16 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (2 µg/mL) Sensitive (0.25 µg/mL) ⁵ Intermediate (8 µg/mL)
Etest [®] antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar Chloramphenicol Ciprofloxacin Daptomycin Levofloxacin	Resistant Resistant Non-sensitive Resistant	Resistant (> 256 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (0.75 µg/mL)⁶ Resistant (12 µg/mL)

TEST	SPECIFICATIONS	RESULTS
Moxifloxacin Quinupristin/dalfopristin Teicoplanin Trimethoprim/sulfamethoxazole	Intermediate Sensitive Resistant Resistant	Intermediate (1 µg/mL) Sensitive (0.094 µg/mL) Inconclusive⁷ Resistant (8 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1470 base pairs)	≥ 99% sequence identity to <i>S. epidermidis</i> type strain (GenBank: L37605)	99.9% sequence identity to <i>S. epidermidis</i> type strain (GenBank: L37605) ⁸
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

¹1 day at 37°C in an aerobic atmosphere in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

²Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2018)

³The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).

⁴*S. epidermidis*, strain 01-004-2919 was found to be negative for beta-lactamase in previous lot, but tested positive for the current lot during QC testing. Testing was performed in duplicate.

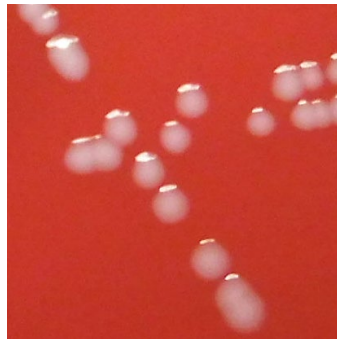
⁵MIC Interpretation Guideline: EUCAST Version 4.0 (2022)

⁶*S. epidermidis*, strain 01-004-2919 was reported as non-sensitive to daptomycin in previous lot. The current lot showed MIC of 0.75 µg/mL (interpreted as susceptible) during QC testing. Testing was performed in duplicate.

⁷*S. epidermidis*, strain 01-004-2919 was reported as resistant to teicoplanin in previous lot during QC testing. The current lot showed MICs of 4 to 6 µg/mL and 15 µg/mL, interpreted as sensitive and intermediate, respectively.

⁸Also consistent with other *Staphylococcus* species

Figure 1: Colony Morphology



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27 SEP 2023

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