

**Staphylococcus epidermidis, Strain 12333**

**Catalog No. NR-45861**

**Product Description:**

*Staphylococcus epidermidis* (*S. epidermidis*), strain 12333 was isolated in November 1999 in California, USA. Strain 12333 is a vancomycin-intermediate *S. epidermidis* strain and was deposited as resistant to penicillin, oxacillin, clindamycin, erythromycin and gentamicin and sensitive to quinupristin/dalfopristin, chloramphenicol, rifampin and tetracycline. *S. epidermidis*, strain 12333 was deposited to BEI Resources as part of the NARSA collection. NR-45861 was produced by inoculation of BEI Resources seed lot 63652478 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: 70070227**

**Manufacturing Date: 25JUL2024**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Colony morphology Cellular morphology Motility (wet mount) Hemolysis Biochemical characterization Catalase Coagulase 1 day at 37°C in an aerobic atmosphere in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827) VITEK® MS (MALDI-TOF)	Report results Gram-positive cocci Report results Report results Positive Negative  <i>S. epidermidis</i>	Circular, convex, entire, smooth and white (Figure 1) Gram-positive cocci Non-motile Non-hemolytic  Positive Negative  <i>S. epidermidis</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>1</sup></b> Cefinase™ Paper Disc Beta-lactamase Etest® antibiotic test strips 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar Penicillin Quinupristin/dalfopristin Teicoplanin VITEK® AST-GP78 card Beta-lactamase <sup>3</sup> Cefoxitin screen Ciprofloxacin Clindamycin Clindamycin (inducible resistance) Daptomycin Erythromycin Gentamicin Levofloxacin Linezolid	Positive  Resistant Sensitive Intermediate  Positive Report results Resistant Resistant Negative Non-susceptible Resistant Resistant Resistant Sensitive	Positive  Resistant (0.19 to 0.25 µg/mL) Sensitive (0.19 µg/mL) Sensitive (3 to 4 µg/mL) <sup>2</sup>  Positive Positive Resistant (4 µg/mL) Resistant (≥ 4 µg/mL) Negative Non-susceptible (2 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 16 µg/mL) Resistant (4 µg/mL) Sensitive (2 µg/mL)

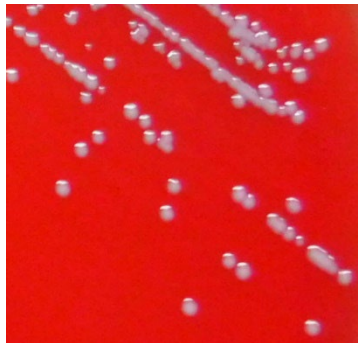
TEST	SPECIFICATIONS	RESULTS
Minocycline Moxifloxacin Nitrofurantoin Oxacillin Rifampin Tetracycline Tigecycline Trimethoprim/sulfamethoxazole Vancomycin	Sensitive Intermediate Sensitive Resistant Sensitive Sensitive Sensitive Resistant Intermediate	Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $1 \mu\text{g/mL}$ ) Sensitive ( $\leq 16 \mu\text{g/mL}$ ) Resistant ( $0.5 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.5 \mu\text{g/mL}$ ) Sensitive ( $\leq 1 \mu\text{g/mL}$ ) Sensitive ( $\leq 0.12 \mu\text{g/mL}$ ) <sup>3</sup> Resistant ( $80 \mu\text{g/mL}$ ) Intermediate ( $8 \mu\text{g/mL}$ )
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	$\geq 99\%$ sequence identity to <i>S. epidermidis</i> type strain (GenBank: CP035288.1)	100% sequence identity to <i>S. epidermidis</i> type strain (GenBank: CP035288.1)
<b>Purity (post-freeze)</b> 7 days at 37°C in an aerobic atmosphere with 5% CO <sub>2</sub> on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S28 (2018)

<sup>2</sup>*S. epidermidis*, strain 12333 was deposited as intermediately resistant to teicoplanin, but showed an MIC of 3 to 4  $\mu\text{g/mL}$  (interpreted as sensitive) for this lot during QC testing. Testing was performed in triplicate.

<sup>3</sup>MIC Interpretation Guideline: EUCAST Version 12.0 (2022)

Figure 1: Colony Morphology



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