

**Staphylococcus epidermidis, Strain W25756**

**Catalog No. NR-45891**

**Product Description:**

*Staphylococcus epidermidis* (*S. epidermidis*), strain W25756 was isolated in April 2001 from the bloodstream of a 73-year-old woman in Oregon, USA. Strain W25756 is a vancomycin-intermediate *S. epidermidis* (VISE) strain. NR-45891 lot 70049548 was produced by inoculation of BEI Resources seed lot 63829091 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: 70049548**

**Manufacturing Date: 21JAN2022**

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TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology Colony morphology  Motility (wet mount) Hemolysis  Biochemical characterization Catalase Coagulase 1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827) VITEK® MS (MALDI-TOF)	Gram-positive cocci  Report results  Report results Report results  Positive Report results  <i>S. epidermidis</i>	Gram-positive cocci  Circular, low convex, entire, smooth and gray (Figure 1)  Non-motile Non-hemolytic  Positive Negative  <i>S. epidermidis</i> (99.9%)
<b>Antibiotic Susceptibility Profile<sup>1</sup></b> VITEK® (AST-GP78 card) Beta-lactamase Cefoxitin screen Benzylpenicillin Oxacillin Ceftaroline Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Linezolid Daptomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole	Positive Positive Resistant Resistant Report results Sensitive Sensitive Sensitive Sensitive Sensitive Negative Resistant Sensitive Sensitive Sensitive Sensitive Resistant Sensitive Sensitive Sensitive	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (0.25 µg/mL) Sensitive (0.5 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Negative Resistant (≥ 8 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (1 µg/mL) Sensitive (1 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.12 µg/mL) <sup>2</sup> Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (20 µg/mL)

TEST	SPECIFICATIONS	RESULTS
<b>Etest® antibiotic test strips</b> 1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar Teicoplanin Vancomycin Quinupristin/dalfopristin	Intermediate Intermediate Sensitive	Intermediate (16 µg/mL) Intermediate (3-8 µg/mL) Sensitive (0.125 µg/mL)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1380 base pairs)	≥ 99% sequence identity to <i>S. epidermidis</i> type strain (GenBank: NARC01000024.1)	≥ 99% sequence identity to <i>S. epidermidis</i> type strain (GenBank: NARC01000024.1) <sup>3</sup>
<b>Purity (post-freeze)</b> 7 days at 37°C in an aerobic atmosphere with and without 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> 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

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

<sup>2</sup>MIC Interpretation Guideline: EUCAST Version 12.0 (2022)

<sup>3</sup>Also consistent with other *Staphylococcus* species

Figure 1: Colony Morphology



/Heather Couch/  
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