

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



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