

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.

Lot¹: 63822407

Manufacturing Date: 21OCT2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ² Biochemical characterization Catalase Coagulase ³ VITEK [®] 2 Compact (GP Card) VITEK [®] MS (MALDI-TOF)	Gram-positive cocci Report results Report results Report results Positive Report results Consistent with <i>S. epidermidis</i> Consistent with <i>S. epidermidis</i>	Gram-positive cocci Circular, low convex, entire, smooth and gray (Figure 1) Non-motile Non-hemolytic Positive Negative Consistent with <i>S. epidermidis</i> Consistent with <i>S. epidermidis</i>
Antibiotic Susceptibility Profile VITEK [®] (AST-GP71 card) ⁴ Beta-lactamase ⁵ Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Daptomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁹ Teicoplanin ¹⁰ Vancomycin ¹⁰	Report results Report results Report results Resistant Sensitive Sensitive Report results Report results Report results Report results Resistant Sensitive Sensitive Sensitive Report results Report results Report results Report results Report results Report results Report results Intermediate Intermediate	Positive Positive Resistant ($\geq 0.5 \mu\text{g/mL}$) Resistant ($\geq 4 \mu\text{g/mL}$) Sensitive ($\leq 0.5 \mu\text{g/mL}$) Sensitive ($\leq 0.5 \mu\text{g/mL}$) Sensitive ($\leq 0.12 \mu\text{g/mL}$) Sensitive ($\leq 0.25 \mu\text{g/mL}$) Negative Resistant ($\geq 8 \mu\text{g/mL}$) Sensitive ($\leq 0.25 \mu\text{g/mL}$) Sensitive ($\leq 0.25 \mu\text{g/mL}$) Sensitive (= $2 \mu\text{g/mL}$) ⁶ Susceptible (= $1 \mu\text{g/mL}$) ⁶ Sensitive ($\leq 0.5 \mu\text{g/mL}$) Resistant ($\geq 16 \mu\text{g/mL}$) Sensitive ($\leq 0.12 \mu\text{g/mL}$) ⁷ Sensitive ($\leq 16 \mu\text{g/mL}$) Sensitive ($\leq 0.5 \mu\text{g/mL}$) Sensitive (= $40 \mu\text{g/mL}$) ⁸ Intermediate (= $12 \mu\text{g/mL}$) Sensitive (= $4 \mu\text{g/mL}$) ¹¹
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1440 base pairs)	Consistent with <i>S. epidermidis</i>	Consistent with <i>S. epidermidis</i> ¹²
Purity (post freeze)¹³	Growth consistent with <i>S. epidermidis</i>	Growth consistent with <i>S. epidermidis</i>
Viability (post-freeze)²	Growth	Growth

- ¹ *S. epidermidis*, strain W25756 was deposited to BEI Resources as part of the NARSA collection. NR-45891 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 with 5% defibrinated sheep blood kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
- ² 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
- ³ 1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
- ⁴ Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- ⁵ The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
- ⁶ *S. epidermidis*, strain W25756 was deposited as being non-susceptible to daptomycin. Antibiotic susceptibility testing performed in duplicate determined that *S. epidermidis*, strain W25756 is susceptible to daptomycin.
- ⁷ MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
- ⁸ *S. epidermidis*, strain W25756 was deposited as being resistant to trimethoprim/sulfamethoxazole. Antibiotic susceptibility testing performed in duplicate determined that *S. epidermidis*, strain W25756 is susceptible to trimethoprim/sulfamethoxazole.
- ⁹ 2 days at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ¹⁰ For teicoplanin (bioMérieux Etest® 412459), a MIC ≤ 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate, and a MIC ≥ 32 µg/mL is resistant. For vancomycin (bioMérieux Etest® 412486), a MIC ≤ 4 µg/mL is sensitive, a MIC = 8-16 µg/mL is intermediate and a MIC ≥ 32 µg/mL is resistant.
- ¹¹ *S. epidermidis*, strain W25756 was deposited as having an intermediate susceptibility to vancomycin. Antibiotic susceptibility testing using bioMérieux Etest® antibiotic test strips and performed in duplicate determined that strain W25756 is sensitive to vancomycin. For additional information on susceptibility testing of glycopeptide intermediate *S. epidermidis* (GISE) strains, please refer to Walsh, T. R., et al. "Evaluation of Current Methods for Detection of *Staphylococci* with Reduced Susceptibility to Glycopeptides." *J. Clin. Microbiol.* 39 (2001): 2439-2444. PubMed: 11427551.
- ¹² Also consistent with other *Staphylococcus* species
- ¹³ Purity of this lot was assessed for 8 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



Date: 18 DEC 2015

Signature:

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