

Staphylococcus epidermidis, Strain HIP04645

Catalog No. NR-45860

Product Description:

Staphylococcus epidermidis (*S. epidermidis*), strain HIP04645 was isolated in November 1999 from blood of a patient in Wisconsin, USA and deposited to BEI Resources as part of the NARSA collection. *S. epidermidis*, strain HIP04645 is a vancomycin-intermediate *S. epidermidis* (VISE) strain and was deposited as resistant to penicillin, oxacillin, clindamycin, erythromycin and gentamicin and sensitive to trimethoprim/sulfamethoxazole, quinupristin/dalfopristin, ciprofloxacin and tetracycline. NR-45860 lot 70030538 was produced by inoculation of seed material 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.

Lot: 70030538

Manufacturing Date: 30OCT2019

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Colony morphology 1 day on Tryptic Soy agar with 5% defibrinated sheep blood Cellular morphology Motility (wet mount) Hemolysis Biochemical characterization Catalase Coagulase VITEK® 2 Compact GP card	Report results Gram-positive cocci Report results Report results Positive Negative <i>S. epidermidis</i> (≥ 89.9%)	Circular, convex, entire, smooth and white (Figure 1) Gram-positive cocci Non-motile Non-hemolytic Positive Negative <i>S. epidermidis</i> (99%)
Antibiotic Susceptibility Profile¹ Cefinase™ Paper Disc Beta-lactamase Etest® antibiotic test strips 2 days at 37°C in an aerobic atmosphere on Mueller Hinton agar Teicoplanin Vancomycin VITEK® AST-GP78 card Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Linezolid Daptomycin Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin	Positive Report results Intermediate Positive Resistant Resistant Resistant Sensitive Sensitive Sensitive Sensitive Negative Resistant Resistant Sensitive Resistant Intermediate Sensitive Sensitive Sensitive	Positive Intermediate (8 to 12 µg/mL) Intermediate (12 µg/mL) Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (2 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (4 µg/mL) ² Sensitive (≤ 0.5 µg/mL) Sensitive (2 µg/mL) Sensitive (0.25 to 0.5 µg/mL) ³ Sensitive (≤ 16 µg/mL)

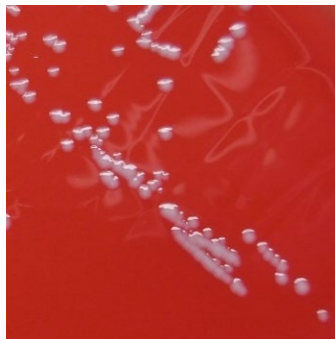
TEST	SPECIFICATIONS	RESULTS
VITEK® AST-GP78 card (continued) Rifampicin Trimethoprim/sulfamethoxazole VITEK® AST-GP67 card Cefoxitin screen Gentamicin Benzylpenicillin Oxacillin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Vancomycin Linezolid Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole	Sensitive Sensitive Positive Resistant Resistant Resistant Sensitive Sensitive Sensitive Negative Resistant Resistant Sensitive Intermediate Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive Sensitive	Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 10 µg/mL) Positive Resistant (≥ 16 µg/mL) Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 0.25 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 4 µg/mL) Sensitive (≤ 0.25 µg/mL) Intermediate (≥ 4 µg/mL) Sensitive (2 µg/mL) Sensitive (2 µg/mL) Sensitive (0.25 µg/mL) ³ Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 10 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)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze) 1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood	Growth	Growth

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

²The susceptibility result for this antibiotic is within one doubling dilution of specification, which is considered an equivalent result.

³MIC Interpretation Guideline: EUCAST Version 8.0 (2018)

Figure 1: Colony Morphology



/Heather Couch/

Heather Couch

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