

Staphylococcus aureus, Strain HIP10267

Catalog No. NR-45902

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HIP10267 was isolated in 2000 from the bloodstream of a 30-year-old male patient in Maryland, USA.

Lot¹: 70011116

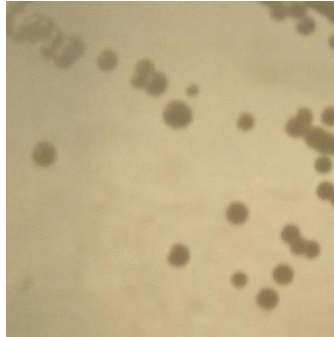
Manufacturing Date: 07DEC2017

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ³ Biochemical characterization Catalase Coagulase ⁴ VITEK [®] 2 Compact (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results <i>S. aureus</i> (≥ 89%)	Gram-positive cocci Circular, convex, entire, smooth and cream (Figure 1) Non-motile β-hemolytic Positive Positive <i>S. aureus</i> (99%)
Antibiotic Susceptibility Profile⁵ VITEK [®] (AST-GP71 card) Beta-lactamase ⁶ 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 ¹⁰ Chloramphenicol Teicoplanin Vancomycin	Report results Report results Report results Resistant Resistant Resistant Report results Report results Report results Resistant Resistant Report results Report results Resistant Resistant Report results Report results Report results Report results Report results Report results Report results Sensitive Report results Sensitive Intermediate	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 16 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (= 1 µg/mL) ⁷ Resistant (≥ 8 µg/mL) ⁸ Non-susceptible (= 2 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) ⁹ Sensitive (≤ 16 µg/mL) Resistant (≥ 32 µg/mL) Sensitive (≤ 10 µg/mL) Sensitive (= 4 to 6 µg/mL) Sensitive (= 3 µg/mL) Intermediate (= 8 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (770 base pairs)	≥ 99% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597)	100% sequence identity to <i>S. aureus</i> type strain (GenBank: L37597) ¹¹
Purity (post-freeze)¹²	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)²	Growth	Growth

¹*S. aureus*, strain HIP10267 was deposited to BEI Resources as part of the NARSA collection. NR-45902 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 kolles, which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.

- ²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar
- ³1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
- ⁴1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
- ⁵Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
- ⁶The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
- ⁷*S. aureus*, strain HIP10267 was deposited as having an intermediate susceptibility to quinupristin/dalfopristin. Antibiotic susceptibility testing performed in duplicate determined that strain HIP10267 is sensitive to quinupristin/dalfopristin.
- ⁸*S. aureus*, strain HIP10267 was deposited as sensitive to linezolid. Antibiotic susceptibility testing performed in duplicate determined that strain HIP10267 is resistant to linezolid.
- ⁹MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
- ¹⁰1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ¹¹Also consistent with *S. argenteus* and *S. simiae*
- ¹²Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology



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Program Manager or designee, ATCC Federal Solutions

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