

Staphylococcus aureus, Strain HIP07930

Catalog No. NR-45872

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HIP07930 was isolated in 1999 from the bloodstream of an adult female ICU patient in New York, USA. *S. aureus*, strain HIP07930 is a hospital-acquired methicillin-resistant *S. aureus* (HA-MRSA) strain and is reported to be resistant to erythromycin, clindamycin, trimethoprim/sulfamethoxazole, gentamicin and levofloxacin.

Lot¹: 62280935

Manufacturing Date: 09JAN2014

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)	Gram-positive cocci Report results Report results Report results Positive Report results Consistent with <i>S. aureus</i>	Gram-positive cocci Circular, low convex, entire, smooth and white (Figure 1) Non-motile β-hemolytic Positive Positive Consistent with <i>S. aureus</i>
Antibiotic Susceptibility Profile VITEK [®] (AST-GP71 card): ⁴ Beta-lactamase ⁵ Cefoxitin screen Benzylpenicillin Oxacillin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips: ⁶ Chloramphenicol ⁷ Teicoplanin ⁷ Gentamicin ⁷	Report results Report results Resistant Resistant Resistant Report results Report results Report results Resistant Resistant Sensitive Sensitive Intermediate Sensitive Report results Report results Report results Report results Resistant Report results Sensitive Resistant	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Resistant (= 4 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (= 0.5 µg/mL) Sensitive (= 4 µg/mL) Intermediate (= 4 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Resistant (≥ 320 µg/mL) Sensitive (= 6 µg/mL) Sensitive (= 3 µg/mL) Resistant (≥ 32 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs) Riboprinter [®] Microbial Characterization System	Consistent with <i>S. aureus</i> Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i> Consistent with <i>S. aureus</i>
Viability (post-freeze)²	Growth	Growth

¹*S. aureus*, strain HIP07930 was deposited to BEI Resources as part of the NARSA collection. NR-45872 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 20 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar

with 5% defibrinated sheep blood kolles which were grown 22 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

²23 hours at 37°C and aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³4 hours at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)

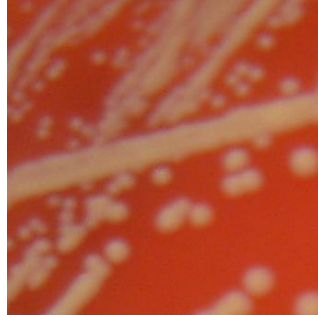
⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

⁵The production of beta-lactamase was detected using a Nitrocefin dry slide (BBL™ 231749).

⁶24 hours at 37°C and aerobic atmosphere on Mueller Hinton agar

⁷For both chloramphenicol (bioMérieux Etest® 412308) and 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 gentamicin (bioMérieux Etest® 412367), a MIC ≤ 4 µg/mL is sensitive, a MIC = 8 µg/mL is intermediate and a MIC ≥ 16 µg/mL is resistant.

Figure 1



Date: 25 MAR 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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