

Certificate of Analysis for NR-46075

Staphylococcus aureus, Strain HIP13057

Catalog No. NR-46075

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HIP13057 was isolated in 2004 from the bloodstream of a 68-year-old female in Michigan, USA. *S. aureus*, strain HIP13057 is a vancomycin-intermediate *S. aureus* (VISA) strain.

Lot¹: 63397527 Manufacturing Date: 27MAR2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, low convex, entire, smooth
control were provided and the control of the contro		and cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ²	Report results	β-hemolytic
Biochemical Characterization		
Catalase	Positive	Positive
Coagulase ³	Report results	Positive
VITEK® 2 Compact (GP card)	Consistent with S. aureus	Consistent with S. aureus
Antibiotic Susceptibility Profile VITEK® (AST-GP71 card) ⁴ Beta-lactamase ⁵ Cefoxitin screen	Report results Report results	Positive Positive
Benzylpenicillin	Report results	Resistant (≥ 0.5 μg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Ciprofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Report results	Resistant (≥ 8 µg/mL)
Moxifloxacin	Report results	Resistant (≥ 8 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Resistant	Resistant (≥ 8 μg/mL)
Clindamycin	Resistant	Resistant (≥ 8 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (= 0.5 µg/mL)
Linezolid	Sensitive	Sensitive (= 4 µg/mL)
Daptomycin	Non-susceptible	Non-susceptible (= 4 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 µg/mL)
Tetracycline	Report results	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (= $0.25 \mu g/mL$) ⁶
Nitrofurantoin	Report results	Sensitive (= 32 μg/mL)
Rifampicin	Report results	Resistant (≥ 32 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 µg/mL)
Etest [®] antibiotic test strips ⁷	255	(= 10 µg/=)
Chloramphenicol ⁸	Report results	Intermediate (= 16 µg/ml)
Teicoplanin ⁸	Intermediate	Intermediate (= 16 µg/mL)
Vancomycin ⁸	Intermediate	Intermediate (= 12 µg/ml)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	Consistent with S. aureus	Consistent with S. aureus
(~ 1490 base pairs)		
Purity (post-freeze) ⁹	Growth consistent with S. aureus	Growth consistent with S. aureus
Viability (post-freeze) ²	Growth	Growth

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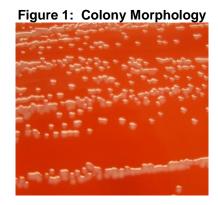
SUPPORTING INFECTIOUS DISEASE RESEARCH

²1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁶MIC Interpretation Guideline: EUCAST Version 4.0 (2014)

⁷1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar

⁹Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.



Date: 03 NOV 2015 Signature:

BEI Resources Authentication

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¹S. aureus, strain HIP13057 was deposited to BEI Resources as part of the NARSA collection. NR-46075 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.

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 the Cefinase™ Paper Disc (BBL™ 231650).

⁸For 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 vancomycin (bioMérieux Etest® 412486), a MIC ≤ 2 μg/mL is sensitive, a MIC 4-8 μg/mL is intermediate and a MIC ≥ 16 μg/mL is resistant