

Certificate of Analysis for NR-45871

Staphylococcus aureus, Strain HIP07920

Catalog No. NR-45871

Product Description: *Staphylococcus aureus* (*S. aureus*), strain HIP07920 was isolated in 1999 in Rhode Island, USA from the bloodstream of a 43-year-old male ICU patient with bacteremia and a history of a transjugular intrahepatic portosystemic shunt, recurrent catheter-associated methicillin-resistant *S. aureus* (MRSA) bacteremia and a prior 2-week course of vancomycin therapy. *S. aureus*, strain HIP07920 is a vancomycin-intermediate *S. aureus* (VISA) strain.

Lot¹: 63025321 Manufacturing Date: 29OCT2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, convex, entire, smooth and
, , , , , , , , , , , , , , , , , , , ,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	white (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ²	Report results	Non-hemolytic
Biochemical Characterization	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
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	Report results	Positive
Cefoxitin screen	Report results	Positive
Benzylpenicillin	Report results	Resistant (≥ 0.5 µg/mL)
Oxacillin	Resistant	Resistant (≥ 4 µg/mL)
Gentamicin	Report results	Inconclusive ⁶
Ciprofloxacin	Resistant	Resistant (≥ 8 µg/mL)
Levofloxacin	Report results	Resistant (= 4 μg/mL)
Moxifloxacin	Report results	Resistant (= 2 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Sensitive (≤ 0.25 μg/mL)
Clindamycin	Report results	Sensitive (≤ 0.25 μg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Linezolid	Report results	Sensitive (= 1 µg/mL)
Daptomycin	Report results	Susceptible (= 1 µg/mL) ⁷
Minocycline	Report results	Sensitive (≤ 0.5 μg/mL)
Tetracycline	Resistant	Resistant (≥ 16 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 µg/mL)
Nitrofurantoin	Report results	Sensitive (≤ 16 μg/mL)
Rifampicin	Report results	Resistant (≥ 32 µg/mL)
Trimethoprim/sulfamethoxazole	Resistant	Resistant (≥ 320 µg/mL)
Etest [®] antibiotic test strips ⁸		
Chloramphenicol ⁹	Report results	Sensitive (= 2 µg/ml)
Teicoplanin ⁹	Sensitive	Sensitive (= 0.5 μg/ml)
Vancomycin ⁹	Intermediate	Intermediate (= 3 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	Consistent with S. aureus	Consistent with S. aureus
(~ 870 base pairs)		

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SUPPORTING INFECTIOUS DISEASE RESEARCH

TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze) ¹⁰	Consistent with S. aureus	Consistent with S. aureus
Viability (post-freeze) ²	Growth	Growth

S. aureus, strain HIP07920 was deposited to BEI Resources as part of the NARSA collection. NR-45871 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 23 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 24 hours at 37°C in an aerobic atmosphere to produce this lot.

Figure 1



Date: 16 DEC 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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²24 hours at 37°C in an 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 Cefinase™ Paper Disc (BBL™ 231650).

⁶S. aureus, strain HIP07920 was deposited as resistant to gentamicin. Antibiotic susceptibility testing performed in duplicate was inconclusive and could not confirm if this strain is resistant or susceptible to gentamicin.

⁷S. aureus, strain HIP07920 was deposited as being non-susceptible to daptomycin. Antibiotic susceptibility testing performed in duplicate identified S. aureus, strain HIP07920 as susceptible to daptomycin.

⁸24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar

⁹For 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.

¹⁰Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.