

Certificate of Analysis for NR-45865

Staphylococcus aureus, Strain SA MER-S6

Catalog No. NR-45865

Product Description: *Staphylococcus aureus* (*S. aureus*), strain SA MER-S6 is a derivative strain of strain SA MER (NRS11). Strain SA MER was isolated in December 1998 in France from the eye of a 35-year-old female with spontaneous conjunctivitis who had no history of treatment with antimicrobial agents, including glycopeptides, in the preceding three months. *S. aureus*, strain SA MER-S6 is a heterogeneous vancomycin-intermediate *S. aureus* (hVISA) strain and was deposited as resistant to benzylpenicillin but susceptible to methicillin.

Lot¹: 62990868 Manufacturing Date: 10OCT2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, convex, entire, smooth and
, , ,	·	cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ²	Report results	Non-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	Report results	Positive
Cefoxitin screen	Report results	Negative
Benzylpenicillin	Resistant	Resistant (≥ 0.25 µg/mL)
Oxacillin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 μg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Levofloxacin	Report results	Sensitive (= 0.25 μg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 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 (≤ 0.5 μg/mL)
Linezolid	Report results	Sensitive (= 4 µg/mL)
Daptomycin	Non-susceptible	Non-susceptible (= 4 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 μg/mL)
Tetracycline	Sensitive	Sensitive (≤ 1 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 μg/mL)
Nitrofurantoin	Report results	Sensitive (≤ 16 μg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 μg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 μg/mL)
Etest [®] antibiotic test strips ⁶	Donort recults	Compiting (2 mg/ml)
Chloramphenicol ⁷	Report results	Sensitive (= 2 µg/ml)
Teicoplanin ⁷	Report results	Intermediate (= 24 µg/ml) ⁸
Vancomycin ⁷	Report results	Intermediate (= 4-6 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	Consistent with S. aureus	Consistent with S. aureus
(~ 730 base pairs)		

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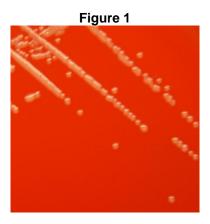
SUPPORTING INFECTIOUS DISEASE RESEARCH

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TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze) ⁹	Growth consistent with S. aureus	Growth consistent with S. aureus
Viability (post-freeze) ²	Growth	Growth

¹S. aureus, strain SA MER-S6 was deposited to BEI Resources as part of the NARSA collection. NR-45865 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 24 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 20 hours at 37°C in an aerobic atmosphere to produce this lot.

Purity 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: 29 JAN 2015

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).

⁶24 hours at 37°C in an 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 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.

⁸S. aureus, strain SA MER-S6 was deposited as resistant to teicoplanin. Antibiotic susceptibility testing using bioMérieux Etest[®] antibiotic test strips performed in duplicate identified strain SA MER-S6 as having an intermediate susceptibility to teicoplanin.