

Certificate of Analysis for NR-45859

Staphylococcus aureus, Strain HIP5836

Catalog No. NR-45859

Product Description: Staphylococcus aureus (S. aureus), strain HIP5836 was isolated in 1997 in New Jersey, USA from a 66-year-old male diabetic with bacteremia and congestive heart failure that was secondary to recurrent methicillin-resistant S. aureus (MRSA) bacteremia and who had a prior 18-week course of vancomycin therapy. S. aureus, strain HIP5836 is a vancomycin-intermediate S. aureus (VISA) strain.

Lot¹: 62990871 Manufacturing Date: 16OCT2014

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	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 (= 2-4 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Resistant (≥ 8 μg/mL)
Clindamycin	Report results	Resistant (≥ 8 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (= 0.5 µg/mL)
Linezolid	Report results	Sensitive (= 2 µg/mL)
Daptomycin	Susceptible Intermediate	Susceptible (= 1 µg/mL)
Vancomycin Minocycline	Report results	Intermediate (= 8 µg/mL) Sensitive (≤ 0.5 µg/mL)
Tetracycline	Sensitive	Sensitive (≤ 0.5 µg/mL)
Tigecycline	Report results	Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL)
Nitrofurantoin	Report results	Sensitive (≤ 0.12 μg/mL)
Rifampicin	Report results	Resistant (≥ 32 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 µg/mL)
Etest [®] antibiotic test strips ⁶	Conciliato	σοποιατό (= το μg/πιε/
Chloramphenicol ⁷	Report results	Sensitive (= 1.5 µg/ml)
Teicoplanin ⁷	Sensitive	Sensitive (= 8 µg/ml)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene	Consistent with S. aureus	Consistent with S. aureus
(~ 870 base pairs)		

BEI Resources

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SUPPORTING INFECTIOUS DISEASE RESEARCH

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TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze) ⁸	Growth consistent with S. aureus	Growth consistent with S. aureus
Viability (nost-freeze) ²	Growth	Growth

¹S. aureus, strain HIP5836 was deposited to BEI Resources as part of the NARSA collection. NR-45859 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 24 hours at 37°C in an aerobic atmosphere to produce this lot.

Figure 1



Date: 12 FEB 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.

⁸Purity of this lot was assessed for 7 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.