

Certificate of Analysis for NR-45996

Staphylococcus aureus, Strain No. 66

Catalog No. NR-45996

Product Description: Staphylococcus aureus (S. aureus), strain No. 66 was isolated in the United Kingdom as early as 1947. S. aureus, strain No. 66 is a methicillin-sensitive S. aureus (MSSA) strain.

Lot¹: 63622049 Manufacturing Date: 10JUL2015

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, flat, entire, smooth, and
Colony morphology	. toport rosums	cream (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ²	Report results	β-hemolytic
Biochemical characterization	Report results	prioritorytic
Catalase	Positive	Positive
Coagulase ³	Report results	Positive
VITEK® 2 Compact (GP card)	Consistent with S. aureus	Consistent with S. aureus
VITER 2 Compact (Gr card)	Consistent with S. aureus	Consistent with S. aureus
Antibiotic Susceptibility Profile		
VITEK® (AST-GP71 card) ⁴		
Cefoxitin screen	Report results	Negative
Benzylpenicillin	Report results	Sensitive (≤ 0.03 µg/mL) ⁵
Oxacillin	Sensitive	Sensitive (= 0.05 µg/mL)
Gentamicin	Sensitive	Sensitive (= 0.5 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Levofloxacin	Report results	Sensitive (≤ 0.12 μg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.12 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative (\$ 0.25 µg/mz)
Erythromycin	Sensitive	Sensitive (≤ 0.25 µg/mL)
	Sensitive	
Clindamycin Quinupristin/dalfopristin	Sensitive	Sensitive (≤ 0.25 µg/mL) Sensitive (≤ 0.25 µg/mL)
Linezolid	Sensitive	
		Sensitive (= 2 µg/mL)
Daptomycin	Report results Sensitive	Sensitive (≤ 0.12 μg/mL)
Vancomycin		Sensitive (≤ 0.5 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 µg/mL)
Tetracycline	Report results	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		
Chloramphenicol ⁷	Report results	Sensitive (= 6 µg/mL)
Teicoplanin ⁷	Sensitive	Sensitive (= 1 µg/mL)
Genotypic Analysis		
	Consistent with S. aureus	Consistent with S. aureus
Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with S. aureus	Consistent with S. aureus
. ,		
Purity ⁸	Growth consistent with S. aureus	Growth consistent with S. aureus
Viability (post-freeze) ²	Growth	Growth

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SUPPORTING INFECTIOUS DISEASE RESEARCH

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¹S. aureus, strain No. 66 was deposited to BEI Resources as part of the NARSA collection. NR-45996 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.

²1 day 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)

⁵S. aureus, strain No. 66 was deposited as resistant to penicillin. Antibiotic susceptibility testing performed in duplicate determined the penicillin MIC for S. aureus, strain No. 66 as ≤ 0.03 μg/ml, which is considered susceptible; however, this strain tested positive for beta-lactamase production (Cefinase™ Paper Disc BBL™ 231650). While rare, other beta-lactamase producing, penicillin-sensitive S. aureus strains have been reported. For addition information, refer to Gill, V. J., C. B. Manning and C. M. Ingalls. "Correlation of Penicillin Minimum Inhibitory Concentrations and Penicillin Zone Edge Appearance with Staphylococcal Beta-Lactamase Production." J. Clin. Microbiol. 14 (1981): 437-440. PubMed: 6974738.

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

⁷For both chloramphenicol (bioMérieux Etest[®] 412486) 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.





Date: 14 OCT 2015

Signature:

BEI Resources Authentication

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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