

Certificate of Analysis for NR-45912

Staphylococcus aureus, Strain RN4220/pG01

Catalog No. NR-45912

Product Description: *Staphylococcus aureus* (*S. aureus*), strain RN4220/pG01 contains the plasmid pG01 in *S. aureus*, research strain RN4220 (NRS144). Plasmid pG01 was isolated from a clinical methicillin-sensitive *S. aureus* (MSSA) strain in Virginia, USA. *S. aureus*, strain RN4220/pG01 is a MSSA strain and is reported to be resistant to gentamicin, trimethoprim, and quaternary ammonium compounds.

Lot¹: 62401819 Manufacturing Date: 27FEB2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology ²	Report results	Circular, low convex, entire, smooth
Colony merphology	. repert results	and gray (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis ²	Report results	β-hemolytic
Biochemical characterization	. repert results	p nomely ac
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-GP71card) ⁴	.	N
Beta-lactamase ⁵	Report results	Negative
Cefoxitin screen	Report results	Negative
Benzylpenicillin	Report results	Sensitive (≤ 0.03 μg/mL)
Oxacillin	Sensitive	Sensitive (≤ 0.25 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	Sensitive	Sensitive (≤ 0.25 μg/mL)
Clindamycin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (≤ 0.25 μg/mL)
Linezolid	Sensitive	Sensitive (= 1 µg/mL)
Daptomycin	Report results	Sensitive (= 0.25 µg/mL)
Vancomycin	Sensitive	Sensitive (= 1 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)
Etest [®] antibiotic test strips ⁶		
Chloramphenicol ⁷	Report results	Sensitive (= 2 µg/mL)
Teicoplanin ⁷	Sensitive	Sensitive (= 1 µg/mL)
Confirmation of Plasmid ⁸	Resistant to Gentamicin Resistant to Trimethoprim/ sulfamethoxazole	Resistant to Gentamicin Resistant to Trimethoprim/ sulfamethoxazole

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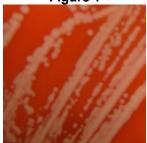
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SUPPORTING INFECTIOUS DISEASE RESEARCH

Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 base pairs)	Consistent with S. aureus	Consistent with S. aureus
Viability (post-freeze) ²	Growth	Growth

S. aureus, strain RN4220/pG01 was deposited to BEI Resources as part of the NARSA collection. NR-45912 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 28 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 under propagation conditions.

Figure 1



Date: 28 AUG 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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²20 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.

⁸Susceptibility was tested on a VITEK® AST-GP71 card and interpreted using CLSI M100-S22 (2012) MIC interpretation guidelines.