SUPPORTING INFECTIOUS DISEASE RESEARCH

Staphylococcus aureus, Strain A970627

Catalog No. NR-45989

Product Description: *Staphylococcus aureus* (*S. aureus*), strain A970627 was isolated in 1997 from a wound of a 3-year-old male with suppurative arthritis in France. *S. aureus*, strain A970627 is a methicillin-sensitive *S. aureus* (MSSA) strain.

Lot¹: 63381388

Manufacturing Date: 13MAR2015

| TEST | SPECIFICATIONS | RESULTS |
|---|----------------------------------|--------------------------------------|
| Phenotypic Analysis | | |
| Cellular morphology | Gram-positive cocci | Gram-positive cocci |
| Colony morphology ² | Report results | Circular, low convex, entire, smooth |
| | | and cream (Figure 1) |
| Motility (wet mount) | Report results | Non-motile |
| Hemolysis ² | Report results | β-hemolytic |
| Biochemical Analysis | | 1 J |
| Catalase | Positive | Positive |
| Coagulase ³ | Report results | Positive |
| VITĔK [®] 2 Compact (GP card) | Consistent with S. aureus | Consistent with S. aureus |
| Antibiotic Susceptibility Profile | | |
| VITEK [®] (AST-GP71card) ⁴ | | |
| Beta-lactamase ⁵ | Report results | Positive |
| Cefoxitin screen | Report results | Negative |
| Benzylpenicillin | Report results | 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) |
| Levofloxin | 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 (= 2 µg/mL) |
| Daptomycin | Report results | Sensitive (= 0.25-0.5 µg/mL) |
| Vancomycin | Sensitive | 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 (= 4 µg/mL) |
| Teicoplanin ⁷ | Sensitive | Sensitive (= 1 µg/mL) |
| Genotypic Analysis | | |
| Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs) | Consistent with S. aureus | Consistent with S. aureus |
| Purity (post-freeze) ⁸ | Growth consistent with S. aureus | Growth consistent with S. aureus |
| Viability (post-freeze) ² | Growth | Growth |

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Certificate of Analysis for NR-45989

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¹S. aureus, strain A970627 was deposited to BEI Resources as part of the NARSA collection. NR-45989 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 21 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.
²19 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)

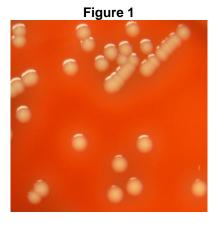
⁴Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)

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 \leq 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate and a MIC \geq 32 µg/mL is resistant.

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



Date: 15 MAY 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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Title:

