

Staphylococcus aureus, Strain A960649

Catalog No. NR-45914

Product Description: *Staphylococcus aureus* (*S. aureus*), strain A960649 is a clinical isolate from France. *S. aureus*, strain A960649 is a methicillin-resistant *S. aureus* (MRSA) strain and is reported to be resistant to amikacin, tobramycin and gentamicin.

Lot¹: 62990908

Manufacturing Date: 09OCT2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Motility (wet mount) Hemolysis ² Biochemical characterization Catalase Coagulase ³ VITEK [®] 2 Compact (GP card)	Gram-positive cocci Report results Report results Report results Positive Report results Consistent with <i>S. aureus</i>	Gram-positive cocci Circular, low convex, entire, smooth, opaque and cream (Figure 1) Non-motile β-hemolytic Positive Positive Consistent with <i>S. aureus</i>
Antibiotic Susceptibility Profile VITEK [®] (AST-GP71 card) ⁴ Beta-lactamase ⁵ Cefoxitin screen Benzylpenicillin Oxacillin Gentamicin Ciprofloxacin Levofloxacin Moxifloxacin Clindamycin (inducible resistance) Erythromycin Clindamycin Quinupristin/dalfopristin Linezolid Daptomycin Vancomycin Minocycline Tetracycline Tigecycline Nitrofurantoin Rifampicin Trimethoprim/sulfamethoxazole Etest [®] antibiotic test strips ⁸ Chloramphenicol ⁹ Teicoplanin ⁹	Report results Report results Report results Resistant Report results Resistant Report results Resistant Report results Report results Report results Report results Resistant Resistant Report results Sensitive Report results Sensitive Report results Sensitive Report results Report results Report results Report results Report results Report results Sensitive Report results Sensitive	Positive Positive Resistant (≥ 0.5 µg/mL) Resistant (≥ 4 µg/mL) Inconclusive ⁶ Resistant (≥ 8 µg/mL) Intermediate (= 2 µg/mL) Intermediate (= 1 µg/mL) Negative Resistant (≥ 8 µg/mL) Resistant (≥ 8 µg/mL) Sensitive (= 1 µg/mL) ⁷ Sensitive (= 2 µg/mL) Sensitive (= 0.5-1 µg/mL) Sensitive (= 1 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 1 µg/mL) Sensitive (≤ 0.12 µg/mL) Sensitive (≤ 16 µg/mL) Sensitive (≤ 0.5 µg/mL) Sensitive (≤ 20 µg/mL) Sensitive (= 4 µg/mL) Sensitive (= 1-2 µg/mL)
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1460 base pairs)	Consistent with <i>S. aureus</i>	Consistent with <i>S. aureus</i>
Purity (post-freeze)¹⁰	Growth consistent with <i>S. aureus</i>	Growth consistent with <i>S. aureus</i>
Viability (post-freeze)²	Growth	Growth

- ¹*S. aureus*, strain A960649 was deposited to BEI Resources as part of the NARSA collection. NR-45914 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 26 hours at 37°C in an aerobic atmosphere to produce this lot.
- 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).
- ⁶*S. aureus*, strain A960649 was deposited as resistant to gentamicin. Antibiotic susceptibility testing performed in duplicate was inconclusive and could not confirm if this strain is resistant or susceptible to gentamicin.
- ⁷*S. aureus*, strain A960649 was deposited as being resistant to quinupristin/dalfopristin. Antibiotic susceptibility testing performed in duplicate identified *S. aureus*, strain A960649 as sensitive to quinupristin/dalfopristin.
- ⁸24 hours at 37°C in an aerobic atmosphere on Mueller Hinton agar
- ⁹For 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.
- ¹⁰Purity of this lot was assessed for 8 days on Tryptic Soy agar with 5% defibrinated sheep blood at 37°C in an aerobic atmosphere.

Figure 1: Colony Morphology



Date: 26 APR 2017

Signature:

BEI Resources Authentication

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