**Staphylococcus aureus**, Strain A960649

Catalog No. NR-45914

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**Manufacturer:**
BEI Resources

**Product Description:**
- **Bacteria Classification:** Staphylococcaceae, Staphylococcus
- **Species:** Staphylococcus aureus
- **Strain:** A960649
- **NARSA Catalog Number:** NRS108
- **Original Source:** Staphylococcus aureus (S. aureus), strain A960649 is a clinical isolate from France.\(^1\)^\(^2\)\(^3\)
- **Comments:** S. aureus, strain A960649 is a methicillin-resistant S. aureus (MRSA) strain. Strain A960649 was deposited as positive for mec (subtype I), 4'-4''-aminoglycoside nucleotidytransferase (ant4); responsible for tobramycin resistance and 2''-aminoglycoside phosphotransferase-6'-aminoglycoside acetyltransferase (aac6'-aph2'; responsible for amikacin, tobramycin and gentamicin resistance); MLST sequence type (ST) 8; eGenomic spa type 1, eGenomic spa repeats YHGFMQBLO; Ridom spa type 1008.\(^1\)^\(^2\)\(^4\) Note: Methicillin-resistant Staphylococcus aureus (MRSA) strains continue to be used to describe S. aureus strains resistant to all penicillins.
- S. aureus is a Gram-positive, cluster-forming coccus that normally inhabits human nasal passages, skin and mucus membranes. It is also a human pathogen and causes a variety of pus-forming infections as well as food-poisoning and toxic shock syndrome. In 1961, two years after the introduction of methicillin, a penicillinase-resistant penicillin, S. aureus developed methicillin-resistance due to acquisition of the mecA gene. For the last forty-five years hospital-acquired (HA) MRSA strains have disseminated worldwide. More recently, MRSA strains have been isolated that are not hospital acquired and are referred to as community-associated (CA) MRSA. These CA-MRSA strains differ phenotypically and genotypically from HA-MRSA strains and they are more frequently recovered from skin and soft tissue sources rather than post-operative wounds.\(^3\)^\(^4\)

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-45914 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freezethaw cycles should be avoided.

**Growth Conditions:**
- **Media:** Brain Heart Infusion broth or Tryptic Soy broth or equivalent
- **Temperature:** 37°C
- **Atmosphere:** Aerobic
- **Incubation:**
  1. Keep vial frozen until ready for use, then thaw.
  2. Transfer the entire thawed aliquot into a single tube of broth.
  3. Use several drops of the suspension to inoculate an agar slant and/or plate.
  4. Incubate the tube, slant and/or plate at 37°C for 1 day.

**Citation:**
Acknowledgment for publications should read “The following reagent was provided by the Network on Antimicrobial Resistance in Staphylococcus aureus (NARSA) for distribution by BEI Resources, NIAID, NIH: Staphylococcus aureus, Strain A960649, NR-45914.”

**Biosafety Level: 2**

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**References:**
1. NARSA, NRS108

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