Staphylococcus aureus, Strain VCU006

Catalog No. NR-46374

For research use only. Not for use in humans.

Contributor:
Network on Antimicrobial Resistance in Staphylococcus aureus (NARSA)

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Staphylococcaceae, Staphylococcus
Species: Staphylococcus aureus
Strain: VCU006
NARSA Catalog Number: NRS846

Original Source: Staphylococcus aureus (S. aureus), strain VCU006 is of unknown origin.1

Comments: The complete genome of S. aureus, strain VCU006 has been sequenced (GenBank: AGTZ01000000).

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 S. aureus developed methicillin resistance due to the acquisition of 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 the skin and soft tissue sources rather than post-operative wounds.2,3

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-46374 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. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:
Brain Heart Infusion broth or Tryptic Soy broth or equivalent
Brain Heart Infusion agar or Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:
Temperature: 37°C
Atmosphere: Aerobic

Propagation:
1. Keep the 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 VCU006, NR-46374."

Biosafety Level: 2


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References:
1. NARSA, NRS846

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