**Staphylococcus aureus, Strain C1999000193**

**Catalog No. NR-45992**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

Bacteria Classification: *Staphylococcaceae, Staphylococcus*

Species: *Staphylococcus aureus*

Strain: C1999000193

NARS Catalog Number: NRS193

Original Source: *Staphylococcus aureus* (S. aureus), strain C1999000193 was isolated in 1999 from pleural fluid of a 13-year-old female with necrotizing pneumonia and severe sepsis in rural Minnesota, USA.1,2

Comments: *S. aureus*, strain C1999000193 is a community-associated methicillin-resistant *S. aureus* (CA-MRSA) strain. *S. aureus*, strain C1999000193 was deposited as positive for mec (subtype IV), PVL and the staphylococcal enterotoxin gene seb; negative for Ist; MLST sequence type (ST) 1; eGenomic spa type 194, eGenomic spa repeats UJFFKPKFKE; Ridom spa type t175.1,2 Based on pulsed field gel electrophoresis, *S. aureus*, strain C1999000193 is closely related to *S. aureus* strains MW2 (NRS123), C1998000370 (NRS192) and C1999000529 (NRS194).2

Note: Methicillin is no longer clinically used, however, the term methicillin-resistant *Staphylococcus aureus* (MRSA) continues 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-45992 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 with 5% defibrinated sheep blood or equivalent

**Incubation:**

Temperature: 37°C

Atmosphere: Aerobic

**Propagation:**

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 18 to 24 hours.

**Citation:**

Acknowledgment for publications should read “The following reagent was provided by the Network on Antimicrobial Resistance in *Staphylococcus aureus* (NARS) for distribution by BEI Resources, NIAID, NIH: *Staphylococcus aureus*, Strain C1999000193, NR-45992.”

**Biosafety Level:** 2


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References:
1. NARSA, NRS193

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