**Staphylococcus aureus, Strain A860325**

**Catalog No. NR-45986**

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: A860325

NARSA Catalog Number: NRS187

Original Source: *Staphylococcus aureus* (S. aureus), strain A860325 was isolated in 1986 from pus associated with osteitis and/or osteomyelitis of a female in France.1

Comments: *S. aureus*, strain A860325 is a methicillin-sensitive *S. aureus* (MSSA) strain. *S. aureus*, strain A860325 was deposited as negative for *mec*; positive for the enterotoxin gene cluster (egc) operon, the staphylococcal enterotoxin gene *seb*, the hemolysin genes *hla*, *hld* and *hlgv* and the leukocidin genes *lukS*-PV-*lukF*-PV and *lukE*-lukD; MLST sequencing type (ST) 25; spa repeats ZFGM; Riodm *spa* type t643; agr group I.1 Note: Methicillin is no longer clinically used, however, the terms methicillin-resistant *S. aureus* (MRSA) and methicillin-sensitive *S. aureus* (MSSA) continue to be used to describe the susceptibility of *S. aureus* strains to the 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. Subsequently, MRSA infections have become widespread in both hospital and community settings.2 As compared to MSSA infections, MRSA infections tend to have more complications such as a higher recurrence rate and higher mortality.3 5

**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-45986 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* (NARSA) for distribution by BEI Resources, NIAID, NIH: *Staphylococcus aureus*, Strain A860325, NR-45986.”

**Biosafety Level:** 2


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References:
1. NARSA, NRS187

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