**Staphylococcus aureus, Strain Sa1263**

**Catalog No. NR-51348**

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:** Sa1263
**Original Source:** Staphylococcus aureus (S. aureus), strain Sa1263 was isolated in 2005 from the bloodstream of a patient with sepsicemia in Helsinki, Finland.\(^1\,2\)
**Comments:** S. aureus, strain Sa1263 is known to spontaneously produce bacteriophage phi_3244S/Sa1263.\(^1\)
Bacteriophage phi_3244S/Sa1263 belongs to Siphoviridae family of viruses and is a highly selective virus that is extremely effective at lysing S. aureus.\(^1\)
Bacteriophage phi_3244S/Sa1263 is a reference genome for The Human Microbiome Project (HMP). The complete genome of bacteriophage phi_3244S/Sa1263 is scheduled to be sequenced at the J. Craig Venter Institute.

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 community and hospital settings.\(^3\)

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

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

**Packaging/Storage:**
NR-51348 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:**
Tryptic Soy broth or Brain Heart Infusion broth or equivalent Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar 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 1 day.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Staphylococcus aureus, Strain Sa1263, NR-51348.”

**Biosafety Level:** 2

**Disclaimers:**
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References:

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