

Staphylococcus aureus, Strain HI022

Catalog No. NR-30550

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Staphylococcaceae*, *Staphylococcus*

Species: *Staphylococcus aureus*

Strain: HI022

Original Source: *Staphylococcus aureus* (*S. aureus*), strain HI022 was isolated from a labial abscess of a 3-year-old female.¹

Comments: *S. aureus*, strain HI022 is a methicillin-sensitive *S. aureus* (MSSA) strain. Strain HI022 is resistant to erythromycin and penicillin but sensitive to oxacillin, clindamycin, vancomycin, ciprofloxacin, tetracycline, rifampin, linezolid and ceftriaxone.¹ It was also deposited as negative for *mec*; *pvl*⁺; pulsed-field type USA300; pulsed-field gel electrophoresis type 4; and low virulence toward *Caenorhabditis elegans*.¹ The complete genome sequence of *S. aureus*, strain HI022 is available (GenBank: [AIYL000000000](https://www.ncbi.nlm.nih.gov/nuclot/AIYL000000000)).

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.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-30550 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 18 to 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Staphylococcus aureus*, Strain HI022, NR-30550."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. *Biosafety in Microbiological and Biomedical Laboratories*. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. D. Mukundan, Personal Communication.

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