

Staphylococcus aureus, Strain HFH-30364

Catalog No. NR-10189

For research use only. Not for human use.

Contributor:

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Product Description:

Bacteria Classification: *Staphylococcaceae*, *Staphylococcus*

Species: *Staphylococcus aureus*

Strain: HFH-30364

Original Source: *Staphylococcus aureus* (*S. aureus*), strain HFH-30364 was isolated from a human abscess in Michigan, 2004.¹

Comments: *S. aureus*, strain HFH-30364 is a community associated methicillin-resistant *S. aureus* (MRSA) strain and has been pulse-field gel electrophoresis (PFGE) typed as USA400 and is positive for the Panton-Valentine leucocidin virulence factor. *S. aureus*, strain HFH-30364 contains staphylococcal chromosome cassette *mec* type IV a.¹

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. For the last few decades MRSA have been generally associated with nosocomial infections. Recently, however, MRSA strains have been isolated that are not acquired at a hospital and these strains are referred to as community associated-MRSA (CA-MRSA). CA-MRSA strains differ from hospital acquired MRSA strains in that they are more frequently recovered from skin and soft tissue sources.^{2,3}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-10189 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°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 equivalent

Brain Heart Infusion Agar or Tryptic Soy Agar with 5% 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 tubes and plate at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Staphylococcus aureus*, Strain HFH-30364, NR-10189."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

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References:

1. Marcus Zervos, personal communication.
2. Davis, S. L., et al. "Epidemiology and Outcomes of Community-Associated Methicillin-Resistant *Staphylococcus aureus* Infection." *J. Clin. Microbiol.* 45 (2007): 1705-1711. PubMed: 173924441.
3. [Todar's Online Textbook of Bacteriology](#)

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