**Staphylococcus aureus**, Strain HT 20020075

**Catalog No. NR-46028**

For research use only. Not for human use.

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**Manufacturer:** BEI Resources

**Product Description:**

**Bacteria Classification:** Staphylococcaceae, Staphylococcus

**Species:** Staphylococcus aureus

Strain: HT 20020075  
NARSA Catalog Number: NRS235

**Original Source:** Staphylococcus aureus (S. aureus), strain HT 20020075 was isolated in 2002 from the bloodstream of a 5-year-old male with native valve endocarditis in France.¹

**Comments:** S. aureus, strain HT 20020075 is a clinically associated methicillin-sensitive S. aureus (MSSA) strain.¹ S. aureus, strain HT 20020075 was deposited as negative for mec; positive for the enterotoxin gene cluster (egc) operon and the y-hemolysin gene (hlg); MLST sequencing type (ST) 22; eGenomic spa type 912, eGenomic spa repeats TJEJOMOKR; Ridom spa type t1862; 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.³⁵

**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-46028 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 HT 20020075, NR-46028.”

**Biosafety Level:** 2


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References:
1. NARSA, NRS235

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