Staphylococcus aureus, Strain HT 20020065

Catalog No. NR-46025

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: HT 20020065
NARSA Catalog Number: NRS232
Original Source: Staphylococcus aureus (S. aureus), strain HT 20020065 was isolated in 2002 from the bloodstream of a 4-year-old male with necrotizing pneumonia in France.¹
Comments: S. aureus, strain HT 20020065 is a clinically associated methicillin-sensitive S. aureus (MSSA) strain.¹ S. aureus, strain HT 20020065 was deposited as negative for mec; positive for the enterotoxin gene cluster (egc) operon, a γ-hemolysin gene (hlg) and the Panton Valentine leukocidin (PVL) components lukS and lukF; MLST sequencing type (ST) 22; eGenomic spa type 113, eGenomic spa repeats TJEJNCMOCR; Ridom spa type t005; agr group 1.¹ Note: Methicillin is no longer clinically used, however, the terms methicillin-resistant Staphylococcus aureus (MRSA) and methicillin-sensitive Staphylococcus 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-46025 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 20020065, NR-46025.”

Biosafety Level: 2

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References:
1. NARSA, NRS232

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