Product Information Sheet for NR-46042

Staphylococcus aureus, Strain HT 20020341

Catalog No. NR-46042

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 20020341
NARSA Catalog Number: NRS249
Original Source: Staphylococcus aureus (S. aureus), strain HT 20020341 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 20020341 is a clinically associated methicillin-resistant S. aureus (MRSA) strain. S. aureus, strain HT 20020341 was deposited as positive for mec (subtype IV), the staphylococcal enterotoxin gene sea, the gamma-hemolysin gene hlgv and the leukocidin genes lukE and lukD; MLST sequencing type (ST) 247; eGenomic spa type 40, eGenomic spa repeats YFGMBOQBOLO; Ridom spa type t052; agr group I.1 Note: Methicillin is no longer clinically used, however, the term methicillin-resistant S. aureus (MRSA) continues to be used to describe S. aureus strains resistant to all 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. For the last forty-five years hospital-acquired (HA) MRSA strains have disseminated worldwide. More recently, MRSA strains have isolated that are not hospital acquired and are referred to as community-associated (CA) MRSA. These CA-MRSA strains differ phenotypically and genotypically from HA-MRSA strains and they are more frequently recovered from skin and soft tissue sources rather than post-operative wounds.2,3

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-46042 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 20020341, NR-46042.”

Biosafety Level: 2


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NR-46042_06JAN2015
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References:
1. NARSA, NRS249

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