**Product Information Sheet for NR-46034**

**Staphylococcus aureus**, Strain HT 20020233

Catalog No. **NR-46034**

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 20020233

NARSA Catalog Number: NRS241

**Original Source:** *Staphylococcus aureus* (S. aureus), strain HT 20020233 was isolated in 2002 from a wound of a 2-month-old male with scarlet fever associated with varicella in France.

**Comments:** *S. aureus*, strain HT 20020233 is a clinically associated methicillin-resistant *S. aureus* (MRSA) strain. *S. aureus*, strain HT 20020233 was deposited as positive for mec (subtype IV), the staphylococcal enterotoxin genes *seb* and *sel* and the gamma-hemolysin gene *hlgv*; MLST sequencing type (ST) 59; eGenomic *spa* type 17, eGenomic *spa* repeats ZDMDMNKB; Ridom *spa* type t216; *agr* group I. 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 been 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.

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

**Packaging/Storage:**

NR-46034 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 20020233, NR-46034.”

**Biosafety Level:**

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References:
1. NARSA, NRS241

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