**Staphylococcus aureus, Strain HT 20020396**

**Catalog No. NR-46054**

For research use only. Not for use in humans.

**Contributor:**
Centers for Disease Control and Prevention, Atlanta, Georgia, USA

**Manufacturer:**
BEI Resources

**Product Description:**

*Bacteria Classification:* Staphylococcaceae, *Staphylococcus aureus*

Species: *Staphylococcus aureus*

Strain: HT 20020396

NARSA Catalog Number: NRS261

Original Source: *Staphylococcus aureus* (S. aureus), strain HT 20020396 was isolated in 2002 from the respiratory specimen of a male outpatient in France.1

Comments: *S. aureus*, strain HT 20020396 is a clinically-associated methicillin-resistant *S. aureus* (MRSA) strain. Strain HT 20020396 was deposited as negative for *mecA*, positive for the Panton Valentine leukocidin (PVL) components lukes and lukeF, the staphylococcus enterotoxin genes sea and the egc operon and the γ-hemolysin gene hlg. MLST sequencing type (ST) 45, eGenomics spa repeat motif WGKAKAOMQ, eGenomics spa type 43, Ridom spa type t021 and agr group III.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. 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.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-46054 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 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 1 day.

**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 20020396, NR-46054.”

**Biosafety Level:**

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**Disclaimers:**

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References:
1. NARSA, NRS261

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