**Staphylococcus aureus**, Strain AIS 1001095

**Catalog No. NR-46421**

**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:** AIS 1001095 (also referred to as VRSA-11a)

**NARSA Catalog Number:** VR511a

**Original Source:** *Staphylococcus aureus* (S. aureus), strain AIS1001095 was isolated in 2010 in Delaware, USA from wound drainage of a 63-year-old female with a prosthetic joint infection who had been unsuccessfully treated with continuous vancomycin therapy for 3 months.

**Comments:** *S. aureus* strain AIS 1001095 is vancomycin-resistant *S. aureus* (VRSA) strain. *S. aureus*, strain AIS 1001095 was deposited as positive for mec and vanA; negative for vanB, PVL and arginine catabolic mobile element (ACME); pulsed-field type USA100; spa repeats TJMBDMGMK; Ridom spa type t002. *S. aureus*, strain AIS 1001095 is a USA100 isolate. USA100 isolates have the same MLST profile (ST 5), SCCmec (subtype II) and spa motif (MDMGMK) and are usually resistant to erythromycin and spectinomycin as well as being multiresistant to other commonly used therapeutic agents. USA100 is the most prevalent U.S. health care-associated pulse-field type and is endemic in many U.S. hospitals.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 6 μg/mL vancomycin and 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-46421 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 \textit{Staphylococcus aureus} (NARSA) for distribution by BEI Resources, NIAID, NIH: \textit{Staphylococcus aureus}, Strain AIS 1001095, NR-46421.

**Biosafety Level: 2**


**Disclaimers:**

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**References:**


3. NARSA, VRS11a


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