

Staphylococcus hominis, Strain VCU122

Catalog No. NR-46399

For research use only. Not for use in humans.

Contributor:

Network on Antimicrobial Resistance in *Staphylococcus aureus* (NARSA), NIAID, NIH

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Staphylococcaceae*, *Staphylococcus*

Species: *Staphylococcus hominis*

Strain: VCU122

NARSA Catalog Number: NRS871

Original Source: *Staphylococcus hominis* (*S. hominis*), strain VCU122 is of unknown origin.¹

Comments: The complete genome sequence of *S. hominis*, strain VCU122 has been sequenced (GenBank: [AHLD00000000](#)).

S. hominis is a Gram-positive, non-motile, coagulase-negative staphylococci (CoNS) that is a commensal resident of human skin covering the axillae, head, legs and arms. It is also an opportunistic pathogen in immunocompromised patients and neonates and has been associated as the causal agent of bacteremia, septicemia and endocarditis.^{2,3,4} *S. hominis* is subspecies into *S. hominis*, subsp. *hominis* and *S. hominis*, subsp. *novobioceticus* based on the combined characteristics of novobiocin resistance and failure to produce acid aerobically from D-threhalose and N-acetyl-D-glucosamine in *S. hominis*, subsp. *novobioceticus*.⁵ The two subspecies also differ in the presence and type of SCCmec cassette they carry. The majority of *S. hominis*, subsp. *novobioceticus* isolates have SCCmec cassette components similar to the ones found in *S. aureus*, whereas only a small subset of *S. hominis*, subsp. *hominis* isolates carry a SCCmec cassette and there is a larger diversity of SCCmec components.⁶

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-46399 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 through BEI Resources, NIAID, NIH: *Staphylococcus hominis*, Strain VCU122, NR-46399."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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References:

1. NARSA, NRS871
2. Kloos, W. E. and K. H. Schleifer. "Isolation and Characterization of Staphylococci from Human Skin. II. Descriptions of Four New Species: *Staphylococcus warneri*, *Staphylococcus hominis*, *Staphylococcus hominis*, and *Staphylococcus simulans*." Int. J. Syst. Bacteriol. 25 (1975): 62-79.
3. Chaves, F., et al. "Nosocomial Spread of a *Staphylococcus hominis* subsp. *novobiosepticus* Strain Causing Sepsis in a Neonatal Intensive Care Unit." J. Clin. Microbiol. 43 (2005): 4877-4879. PubMed: 16145165.
4. Mendoza-Olazarán, S., et al. "Microbiological and Molecular Characterization of *Staphylococcus hominis* Isolates from Blood." PLoS One 8 (2013): e61161. PubMed: 23585877.
5. Kloos, W. E., et al. "*Staphylococcus hominis* subsp. *novobiosepticus* subsp. nov., a Novel Trehalose- and N-Acetyl-D-Glucosamine-Negative, Novobiocin- and Multiple-Antibiotic-Resistant Subspecies Isolated from Human Blood Cultures." Int. J. Syst. Bacteriol. 48 (1998): 799-812. PubMed: 9734034.
6. Zhang, L., et al. "Multilocus Sequence Typing and Further Genetic Characterization of the Enigmatic Pathogen, *Staphylococcus hominis*." PLoS One 8 (2013): e66496. PubMed: 23776678.

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