Staphylococcus lugdunensis, Strain VCU150

Catalog No. NR-46409

For research use only. Not for human use.

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

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Staphylococcaceae, Staphylococcus*
Species: *Staphylococcus lugdunensis*
Strain: VCU150
NARSA Catalog Number: NRS881
Original Source: *Staphylococcus lugdunensis* (*S. lugdunensis*), strain VCU150 is of unknown origin.[1]
Comments: The complete genome sequence of *S. lugdunensis*, strain VCU150 is available (GenBank: JIBS00000000).

S. lugdunensis is a Gram-positive, catalase-positive, coagulase-negative staphylococci (CoNS) that normally colonizes human skin.[2] It is commensal and an infrequent pathogen causing endocarditis, abscess and wound infection, urinary tract infection, and infection of implanted medical devices. The clinical characteristics of *S. lugdunensis* infections resemble those of *S. aureus* rather than other CoNS. Unlike other staphyloccal species, *S. lugdunensis* is susceptible to a wide array of antimicrobial agents.[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-46409 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 lugdunensis*, Strain VCU150, NR-46409."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. NARSA, NRS881.
2. Freney, J., et al. "*Staphylococcus lugdunensis* sp. nov. and *Staphylococcus schleiferi* sp. nov., Two Species from Human Clinical Specimens." Int. J. Syst. Bacteriol. 38 (1988): 168-172.
3. Frank, K. L., J. L. Del Pozo and R. Patel. "From Clinical Microbiology to Infection Pathogenesis: How Daring to be Different Works for *Staphylococcus lugdunensis*." Clin. Microbiol. Rev. 21 (2008): 111-133. PubMed: 18202439.

Support Provided by NIAID

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