

***Staphylococcus lugdunensis*, Strain VCU149**

Catalog No. NR-46408

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 lugdunensis*

Strain: VCU149

NARSA Catalog Number: NRS880

Original Source: *Staphylococcus lugdunensis*
(*S. lugdunensis*), strain VCU149 is of unknown origin.¹

Comments: The complete genome of *S. lugdunensis*, strain VCU149 is currently being sequenced.

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 staphylococcal 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-46408 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 lugdunensis*, Strain VCU149, NR-46408."

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, NRS880
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.

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