Product Information Sheet for NR-45927

Staphylococcus hominis subsp. novobiosepticus, Strain NRS122

Catalog No. NR-45927

For research use only. Not for human use.

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

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Staphylococcaceae, Staphylococcus Species: Staphylococcus hominis subsp. novobiosepticus [NR-45927 was deposited to BEI Resources as Staphylococcus epidermidis, however, digital DNA-DNA hybridization (dDDH) testing performed at BEI Resources resulted in reclassification to Staphylococcus hominis (S. hominis) subsp. novobiosepticus]

Strain: NRS122

NARSA Catalog Number: NRS122

Original Source: S. hominis subsp. novobiosepticus, strain NRS122 was isolated in April 2002 from a 42-year-old male inpatient in Maryland, USA.1

Comments: S. hominis subsp. novobiosepticus, strain NRS122 is reported to be a glycopenptide-intermediate Staphylococcal strain. It was deposited as positive for mecA and negative for vanA, vanB, vanC1, vanC2, vanD and vanE.1

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, sepsisemia and endocarditis.2-4 S. hominis is subspecies into S. hominis subsp. hominis and S. hominis subsp. novobiosepticus based on the combined characteristics of novobiocin resistance and failure to produce acid aerobically from D-trehalose and N-acetyl-D-glucosamine in S. hominis subsp. novobiosepticus.5 The two subspecies also differ in the presence and type of SCCmec cassette they carry. The majority of S. hominis subsp. novobiosepticus 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-45927 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 (NARSE) for distribution by BEI Resources, NIAID, NIH: Staphylococcus hominis subsp. novobiosepticus, Strain NRS122, NR-45927.”

Biosafety Level: 2


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References:
1. NARSA, NRS122.

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