**Product Information Sheet for NR-45891**

**Staphylococcus epidermidis, Strain W25756**

**Catalog No. NR-45891**

For research use only. Not for use in humans.

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

**Manufacturer:**
BEI Resources

**Product Description:**

- **Bacteria Classification:** Staphylococcaceae, Staphylococcus
- **Species:** Staphylococcus epidermidis
- **Strain:** W25756
- **NARSA Catalog Number:** NRS60

**Original Source:**
Staphylococcus epidermidis (S. epidermidis), strain W25756 was isolated in April 2001 from the bloodstream of a 73-year-old woman in Oregon, USA. ¹

**Comments:**
S. epidermidis, strain W25756 is a vancomycin-intermediate S. epidermidis (VISE) strain and was deposited as positive for mec and negative for vanA, vanB, vanC, vanD and vanE. ¹

S. epidermidis is a Gram-positive, cluster-forming, coagulase-negative coccus which is part of the normal flora of the skin and nostrils. Recently, it has become a common cause of hospital-acquired infections, particularly infections on implanted medical devices. ² A number of factors, such as biofilm formation, small colony variants and reduced susceptibility to a number of antibiotics, contribute to its success as a cause of nosocomial infections. ³⁻⁴⁻⁵⁻⁶⁻⁷ Approximately 75 to 90% of hospital isolates are methicillin-resistant S. epidermidis (MRSE) and an increasing number of isolates have reduced susceptibility to vancomycin. ² Similar to S. aureus, methicillin resistance is conferred by the mecA gene, whereas the reduced susceptibility to vancomycin is due to cell wall alterations including altered cross-linking and thickening of the wall. ²⁻⁶⁻⁸⁻¹⁰ It is believed that S. epidermidis can serve as a reservoir for antibiotic-resistant genes and other genomic islands for S. aureus which can acquire the genes through unidirectional horizontal gene transfer. ²

**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-45891 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 epidermidis, Strain W25756, NR-45891.”

**Biosafety Level:**
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**References:**
1. NARS, NRS60

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