

***Staphylococcus epidermidis*, Strain M0881**

**Catalog No. NR-41888**

**For research use only. Not for use in humans.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Staphylococcaceae*, *Staphylococcus*

Species: *Staphylococcus epidermidis*

Strain: M0881

Original Source: *Staphylococcus epidermidis* (*S. epidermidis*), strain M0881 was isolated in 2004 from nares of an adult male.<sup>1</sup>

Comments: The complete genome sequence of *S. epidermidis*, strain M0881 is available (GenBank: [AOAJ00000000](http://www.ncbi.nlm.nih.gov/nuclseq/AAJ00000000)).

*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. Similar to *S. aureus*, *S. epidermidis* can be resistant to a number of antibiotics, including methicillin. Approximately 75 to 90% of hospital isolates are methicillin-resistant *S. epidermidis* (MRSE). It is believed that *S. epidermidis* serves as a reservoir for antibiotic resistant genes and other genomic islands that *S. aureus* can acquire through uni-directional horizontal gene transfer.<sup>2</sup>

**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-41888 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:

Tryptic Soy broth or Brain Heart Infusion broth or equivalent Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar 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 obtained through BEI Resources, NIAID, NIH: *Staphylococcus epidermidis*, Strain M0881, NR-41888."

**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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Onderdank, A. B., Personal Communication.
2. Otto, M. "Staphylococcus epidermidis – The 'Accidental' Pathogen." Nat. Rev. Microbiology 7 (2009): 555-567. PubMed: 19609257.

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