

Staphylococcus aureus, Strain MN8

Catalog No. HM-162

For research use only. Not for human use.

Contributor:

Kimberly Nemeth, Ph.D., Regulatory Affairs Manager,
Product Safety & Regulatory Affairs, The Procter & Gamble
Company, Cincinnati, Ohio

Product Description:

Bacteria Classification: *Staphylococcaceae*, *Staphylococcus*

Species: *Staphylococcus aureus*

Strain: MN8

Original Source: *Staphylococcus aureus* (*S. aureus*), strain
MN8 was isolated from the vagina of a toxic shock
syndrome (TSS) patient.^{1,2}

Comments: *S. aureus*, strain MN8 produces toxic shock
syndrome toxin 1 (TSST-1)^{1,2} and has been sequenced as
part of [The Human Microbiome Project](#) (HMP). HMP is an
initiative to identify and characterize human microbial flora.
A draft of the complete genome of *S. aureus*, strain MN8 is
available (GenBank: ACJA00000000).

S. aureus is a Gram-positive, cluster-forming coccus that
normally inhabits human nasal passages, skin and mucus
membranes. It is also a human pathogen and causes a
variety of pus-forming infections as well as food-poisoning
and TSS.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in
0.5X Brain Heart Infusion Broth supplemented with 10%
glycerol.

Note: If homogeneity is required for your intended use,
please purify prior to initiating work.

Packaging/Storage:

HM-162 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 equivalent

Brain Heart Infusion Agar or Tryptic Soy Agar with 5% 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 tubes and plate at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following
reagent was obtained through the NIH Biodefense and
Emerging Infections Research Resources Repository, NIAID,
NIH as part of the Human Microbiome Project:
Staphylococcus aureus, Strain MN8, HM-162."

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, 2007; see
www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. Blomster-Hautamaa, D. A. and P. M. Schlievert. "Preparation of Toxic Shock Syndrome Toxin-1." Methods Enzymol. 165 (1988): 37-43. PubMed: 3231114.
2. Yarwood, J. M. and P. M. Schlievert. "Oxygen and Carbon Dioxide Regulation of Toxic Shock Syndrome Toxin 1 Production by *Staphylococcus aureus* MN8." J. Clin. Microbiol. 38 (2000): 1797-1803. PubMed: 10790102.

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