

Genomic DNA from *Staphylococcus aureus*, Strain CM05

Catalog No. HM-991D

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Genomic DNA was extracted from a preparation of *Staphylococcus aureus* (*S. aureus*), strain CM05. Note: The HMP material used for DNA extraction was taxonomically classified by the depositor. Quality control of HMP organisms is only performed to demonstrate that the material produced by BEI Resources is identical to the deposited material.

S. aureus, strain CM05 was isolated in 2005 in Medellin, Colombia from a tracheal aspirate of a patient with a fatal ventilator-associated pneumonia.¹⁻³ *S. aureus*, strain CM05 (HMP ID 1384) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *S. aureus*, strain CM05 was sequenced by the Genome Institute at [Washington University](#) (GenBank: [AMAB000000000](#)).

HM-991D has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains 0.7 to 1.5 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 8.0). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

HM-991D was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: Genomic DNA from *Staphylococcus aureus*, Strain CM05, HM-991D."

Biosafety Level: 1

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

- Arias, C. A., et al. "Clinical and Microbiological Aspects of Linezolid Resistance Mediated by the *cfr* Gene Encoding a 23S rRNA Methyltransferase." *J. Clin. Microbiol.* 46 (2008): 892-896. PubMed: 18174304.
- Toh, S. M., et al. "Acquisition of a Natural Resistance Gene Renders a Clinical Strain of Methicillin-resistant *Staphylococcus aureus* Resistant to the Synthetic Antibiotic Linezolid." *Mol. Microbiol.* 64 (2007): 1506-1514. PubMed: 17555436.
- Arias, C. A., Personal Communication.

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