

Genomic DNA from *Bacillus samanii*, Strain C1

Catalog No. NR-12239

For research use only. Not for human use.

Contributor:

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Product Description:

Genomic DNA was isolated from a preparation of *Bacillus samanii* (*B. samanii*), strain C1.

Bacillus samanii (*B. samanii*), strain C1 was isolated from soil covered with clean snow in a secluded area of the Massbay College, Wellesley campus college grounds in February 2006.^{1,2} The spore-forming *B. samanii*, strain C1 is resistant to Trimethoprim and the Penicillin family of antibiotics and produces α -hemolysin.¹ Sequence analysis of the *B. samanii*, strain C1 16S gene (GenBank: EF036537) indicates that it is related to the *B. cereus* group of organisms (*B. cereus*, *B. anthracis*, *B. mycoides* and *B. thuringiensis*) as well as *B. pseudomycolides*.

NR-12239 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains 4 to 6 μ g of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-12239 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Bacillus samanii*, Strain C1, NR-12239."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

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References:

1. S. Saman. Personal Communication.
2. Saman, S., S. Saman and H. Patel. "Isolation, Description, and Sequencing of a Novel Species (of an Established Genus): *Bacillus samanii* sp. nov. from Snow." In: 41st Annual Regional Meeting of the Eastern New York, Connecticut Valley, New York City, and Northeast Branches of the American Society for Microbiology; American Society of Microbiology Eastern New York Branch, NY, USA (2006).

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