

# **Product Information Sheet for NR-4056**

## Bacillus samanii, Strain C1

# Catalog No. NR-4056

## For research use only. Not for human use.

#### Contributor:

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## **Product Description:**

Bacteria Classification: Bacillaceae, Bacillus

Species: Bacillus samanii

Strain: C1

Original Source: Bacillus samanii (B. samanii), strain C1 was isolated from soil covered with clean snow in a secluded area of the Massbay College, Wellesley campus grounds in February 2006.<sup>1,2</sup>

B. samanii is a newly discovered filamentous Gram-positive, spore-forming bacteria. 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. pseudomycoides.

## **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-4056 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For longterm storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

### **Growth Conditions:**

Media:

Tryptic Soy Broth or equivalent

Tryptic Soy Agar with 5% sheep's blood or equivalent

Incubation:

Temperature: 25 to 37°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use; thaw slowly.
- Transfer the entire thawed aliquot into a single tube of 2.
- Use several drops of the suspension to inoculate an agar slant and/or plate.

4. Incubate the tubes and plate at 25 to 37°C for 18 to 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: Bacillus samanii, Strain C1, NR-4056."

### 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/biosftv/bmbl5/bmbl5toc.htm.

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### References:

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- 1. S. Saman. Personal Communication.
- 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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