

Bacillus samanii, Strain C1

Catalog No. NR-4056

Product Description: *Bacillus samanii* (*B. samanii*) is a newly discovered filamentous Gram-positive, spore-forming bacteria. *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.

Lot¹: 58533415

Manufacturing Date: 13MAR2009

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Sporulation Motility β-hemolysis Capsule (India ink staining) Tenacious Analytical profile index (API® 50 CHB/API® 20E) Nitrate reduction	Gram-positive rod Report results Report results Report results Report results Report results Report results Report results	Gram-positive rod Filamentous, flat, erose, opaque, gray (Figure 1) Sub-terminal Motile Positive Negative Negative Consistent with <i>B. mycoides</i> ³ Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1430 bp)	Consistent with <i>B. samanii</i>	Consistent with <i>B. samanii</i> ⁴
PCR Assay of Extracted DNA 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)²	Growth	Growth

¹NR-4056 was produced by inoculation of Tryptic Soy Broth with the deposited material and grown 24 hours at 37°C. Broth inoculum was added to Kolles which were grown 24 hours at 37°C to produce this lot.

²24 hours at 37°C and aerobic atmosphere on Tryptic Soy Agar with 5% sheep's blood

³*B. samanii* is a new organism and is currently not in the API database.

⁴Also consistent with *B. pseudomycoides* and the *B. cereus* group which includes species *B. cereus*, *B. thuringiensis*, *B. mycoides*, and *B. anthracis*. *B. samanii* cannot be classified based on 16S sequence (Spencer, R. C. "Bacillus anthracis." *J. Clin. Pathol.* 56 (2003): 182-187. PubMed: 12610093).

Figure 1



Date: 13 JUL 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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