

**Genomic DNA from *Bacillus cereus*, Strain FDA 5**

**Catalog No. NR-4195**

**Product Description:** Genomic DNA was isolated from a preparation of *Bacillus cereus* (*B. cereus*), strain FDA 5.

**Lot<sup>1</sup>: 59902239**

**Manufacturing Date: 18APR2011**

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of 16S Ribosomal RNA Gene (~ 1310 bp)</b>	Consistent with <i>B. cereus</i> group	Consistent with <i>B. cereus</i> group <sup>2</sup>
<b>Agarose Gel Electrophoresis</b>	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
<b>Content by PicoGreen<sup>®</sup> Measurement</b>	0.7 to 1.5 µg in 25 to 100 µL per vial	1.1 µg in 29 µL per vial (39 µg/mL)
<b>Functional Activity by PCR Amplification</b> 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio</b>	1.7 to 2.0	2.0
<b>Bacterial Inactivation</b> 10% of total yield plated on Tryptic Soy Agar <sup>3,4</sup>	No viable bacteria detected	No viable bacteria detected

<sup>1</sup>The bacterial preparation used for extraction of genomic DNA was produced by Tryptic Soy Broth culture of NR-608 lot 3931466. After incubation for 24 hours at 37°C and aerobic atmosphere with 5% CO<sub>2</sub>, genomic DNA was extracted using proprietary technology.

<sup>2</sup>*Bacillus cereus* group species (*B. cereus*, *B. thuringiensis*, *B. mycooides*, and *B. anthracis*) cannot be classified based on 16S sequence (Spencer, R. C. "Bacillus anthracis." *J. Clin. Pathol.* 56 (2003): 182-187. PubMed: 12610093).

<sup>3</sup>7 days at 37°C in an aerobic atmosphere.

<sup>4</sup>An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-positive and Gram-negative bacteria.

**Date:** 30 JAN 2012

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

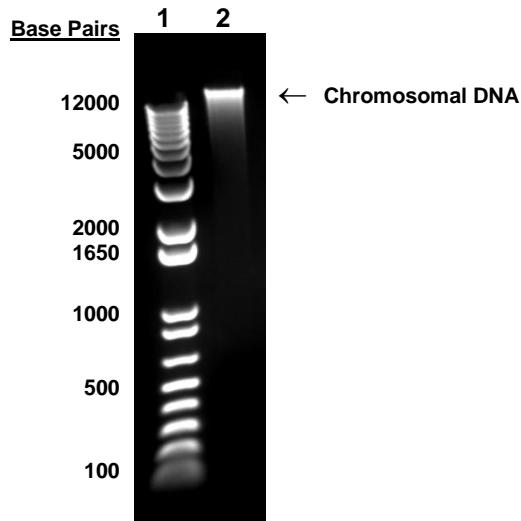
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Figure 1



Lane 1: Invitrogen™ 1 Kb Plus DNA Ladder  
Lane 2: 200 ng of NR-4195