

Genomic DNA from *Bacillus cereus*, Strain E33L

Catalog No. NR-12314

Product Description: Genomic DNA was isolated from a preparation of *Bacillus cereus* (*B. cereus*), strain E33L which was isolated from a swab of a dead zebra carcass in Etosha National Park, Namibia in 1996 by P. C. B. Turnbull.

Lot¹: 58481633

Manufacturing Date: 12FEB2009

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1420 bp)	Identical to GenBank: CP000001 Identical to BEI Resources NR-12264 Consistent with <i>B. cereus</i> group	Identical to GenBank: CP000001 Identical to BEI Resources NR-12264 Consistent with <i>B. cereus</i> group ²
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen[®] Measurement	4 to 6 µg in 25 to 100 µL per vial	5.9 µg in 35 µL per vial (168 µg/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.9
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar ^{3,4}	No viable bacteria detected	No viable bacteria detected

¹*B. cereus*, strain E33L was deposited by Paul J. Jackson, Ph.D., Division Leader, Biosciences and Biotechnology Division, Physical and Life Sciences Directorate and Senior Scientist S Program- CBRNE Countermeasures, Global Security Principal Directorate, Lawrence Livermore National Laboratory, Livermore, CA. The bacterial preparation used for extraction of genomic DNA was produced by broth (Tryptic Soy Broth; BD 211768) culture of the deposited material. After incubation for 24 hours at 37°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

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

³7 days at 37°C in an aerobic atmosphere.

⁴An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

Date: 07 MAY 2009

Signature: Signature on File

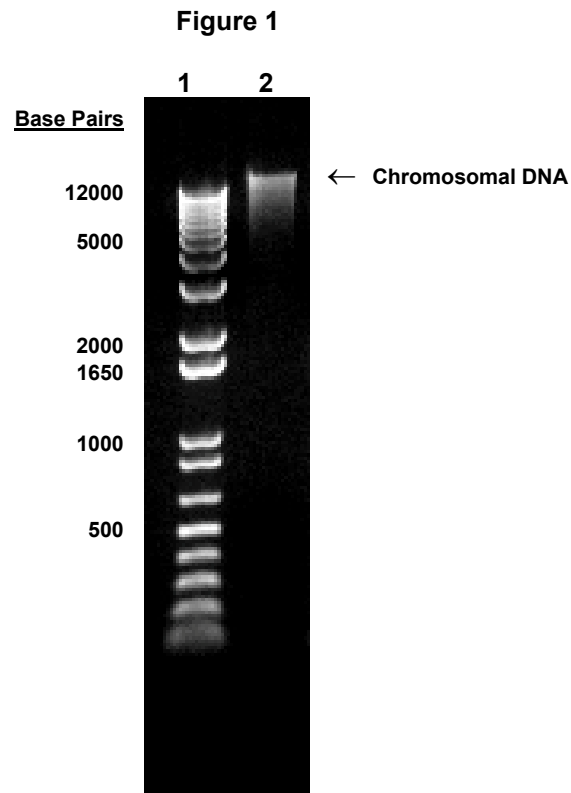
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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-12314