

Genomic DNA from *Bacillus anthracis*, Strain Sterne BA866 ($\Delta asbF$)

Catalog No. NR-10298

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Product Description: Genomic DNA was isolated from a preparation of *Bacillus anthracis*, strain Sterne BA866 ($\Delta asbF$). This strain is an 810 bp deletion mutant ($\Delta asbF$) of the toxigenic acapsulate original Sterne strain (34F2).

Lot¹: 58253173

Manufacturing Date: 01DEC2008

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1420 bp)	Identical to BEI Resources NR-9994 Consistent with <i>B. cereus</i> group	Identical to BEI Resources NR-9994 Consistent with <i>B. cereus</i> group ^{2,3}
Presence or Absence of Plasmids Confirmed by PCR Amplification pXO1 (<i>aat</i>) pXO2 (<i>at, capA, capB, capC</i>)	Positive Negative	Positive Negative
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen[®] Measurement	4 to 6 μ g in 25 to 100 μ L per vial	6 μ g in 55 μ L per vial (109 μ g/mL)
Functional Activity by PCR Amplification 16S ribosomal RNA gene Virulence markers on plasmid pXO1 (<i>aat</i>)	~ 1500 bp amplicon ~ 125 bp amplicon	~ 1500 bp amplicon ~ 125 bp amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 1.9	1.7
Bacterial Inactivation 10% of total yield plated on Tryptic Soy Agar with 5% sheep blood ^{4,5}	No viable bacteria detected	No viable bacteria detected

¹*B. anthracis*, strain BA866 ($\Delta asbF$) was deposited by Philip Hanna, Associate Professor, Department of Microbiology and Immunology, University of Michigan Medical School, Ann Arbor, Michigan. 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].

³Also consistent with *Bacillus coagulans*

⁴7 days at 37°C in an aerobic atmosphere

⁵An extraction procedure was used that has been shown to consistently inactivate 100% of Gram-negative bacteria.

Date: 11 MAY 2009

Signature: Signature on File

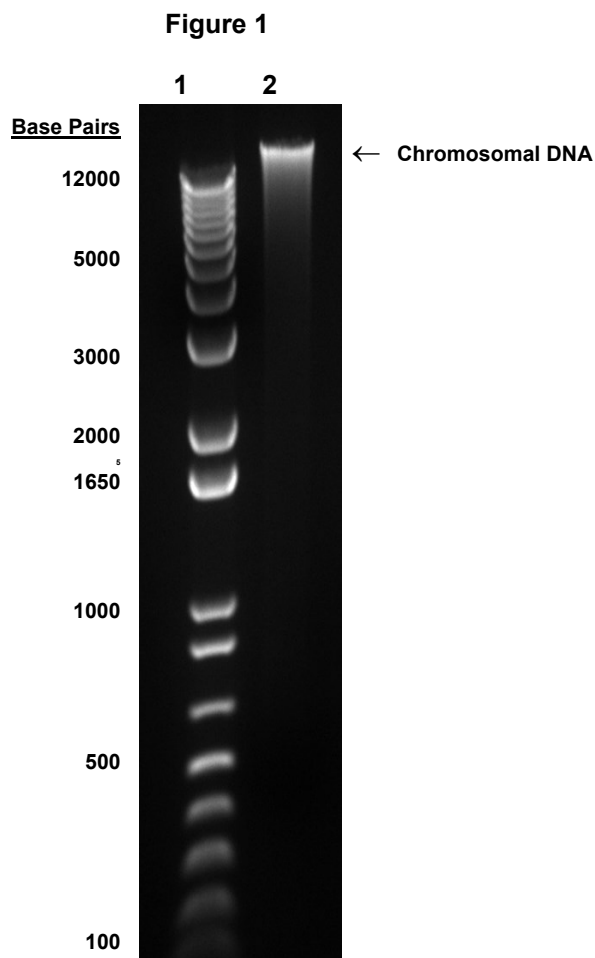
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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: 200 ng of NR-10298