SUPPORTING INFECTIOUS DISEASE RESEARCH

Genomic DNA from Bacillus anthracis, Strain Sterne BA867 (AasbAB)

Catalog No. NR-10299

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Product Description: Genomic DNA was isolated from a preparation of *Bacillus anthracis* (*B. anthracis*), strain Sterne BA867 ($\Delta asbAB$). This strain is a markerless, nonpolar, 3583 bp deletion mutant of two petrobactin biosynthetic genes ($\Delta asbAB$) of the toxigenic acapsulate original Sterne strain (34F2).

Lot¹: 58253174

Manufacturing Date: 08DEC2008

TEST	SPECIFICATIONS	RESULTS
Sequencing of 16S Ribosomal RNA Gene (~ 1410 bp)	Identical to BEI Resources NR-9995 Consistent with <i>B. cereus</i> group	Identical to BEI Resources NR-9995 Consistent with <i>B. cereus</i> group ²
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 μg in 25 to 100 μL per vial	7.3 μ g in 34 μ L per vial (218 μ g/mL) ³
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
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 1.9	1.8
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

¹B. anthracis, strain BA867 (∆asbAB) 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) culture of the deposited material. After incubation for 24 hours at 37°C and aerobic atmosphere, genomic DNA was extracted using proprietary technology.

²Bacillus 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].

³The µg of DNA in the vials is greater than required by current specifications

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 and Gram-positive bacteria.

Date: 12 MAY 2011

Signature:

Title:

Technical Manager, BEI Authentication or designee

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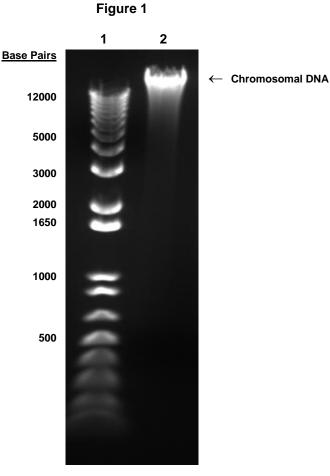


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Certificate of Analysis for NR-10299

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Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder Lane 2: 200 ng of NR-10299

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