Genomic DNA from *Bacillus anthracis*,
Strain Sterne BA855 (\(\Delta asbE\))

Catalog No. NR-10297
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**Contributor:**
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**Product Description:**
Genomic DNA was isolated from a preparation of *Bacillus anthracis* (B. anthracis), strain Sterne BA855 (\(\Delta asbE\)).

This strain is a markerless, nonpolar, 945 bp deletion mutant of the petrobactin biosynthetic gene (\(\Delta asbE\)) of the toxigenic acapsulate original Sterne strain (34F2). Additional information is available at the Resource Center for Biodefense Proteomics Research (BPRC).

*B. anthracis* virulence is dependent on the possession of two large plasmids, pXO1 and pXO2, which are responsible for the expression of an extracellular toxin and a polysaccharide capsule, respectively. The extracellular toxin is composed of three proteins: lethal factor, edema factor, and protective antigen. The Sterne strain of *B. anthracis* is known to contain pXO1 and lack pXO2.

NR-10297 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA gene. The presence of plasmid pXO1 and absence of plasmid pXO2 have been confirmed by PCR amplification of plasmid-specific sequences from extracted DNA.

**Material Provided:**
Each vial contains 4 to 6 µg of bacterial genomic DNA in TE buffer (10 mM Tris-HCl and 1 mM EDTA, pH ~ 7.4). The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

**Packaging/Storage:**
NR-10297 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**
Acknowledgment for publications should read “The following reagent was contributed by P. Hanna, University of Michigan for distribution through BEI Resources, NIAID, NIH: Genomic DNA from *Bacillus anthracis*, Strain Sterne BA855 (\(\Delta asbE\)), NR-10297.”

**Biosafety Level:** 1

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**References:**
1. http://pir.georgetown.edu/cgi-bin/textsearch_cat_ra.pl?datatype=bacteria&search=1&field0=ID&query0=NR-9993


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