Genomic DNA from *Bacillus anthracis*, Strain Sterne BA867 (Δ*asbAB*)

Catalog No. NR-10299

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Contributor:

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Manufacturer:

NIH Biodefense and Emerging Infections Research Resources Repository

Product Description:

Genomic DNA was isolated from a preparation of *Bacillus anthracis* (*B. anthracis*), strain Sterne BA867 (Δ*asbAB*).

This strain is a markerless, nonpolar, 3583 bp deletion mutant of two petrobactin biosynthetic genes (Δ*asbAB*) of the toxigenic acapsulate original Sterne strain (34F2).[1-4] Additional information is available at the Resource Center for Biodefense Proteomics Research (BPRC).

NR-10299 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-10299 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 by the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Bacillus anthracis*, Strain Sterne BA867 (Δ*asbAB*), NR-10299."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. http://pir.georgetown.edu/cgi-bin/textsearch_cat_ra.pl?datatype=bacteria&search=1&field0=ID&query0=NR-9995
2. Lee, J. Y., et al. "Biosynthetic Analysis of the Petrobactin Siderophore Pathway from *Bacillus anthracis*." J. Bacteriol. 189 (2007): 1698-1710. PubMed: 17189355.
3. Cendrowski, S., W. MacArthur and P. Hanna. "*Bacillus anthracis* Requires Siderophore Biosynthesis for Growth in Macrophages and Mouse Virulence." Mol. Microbiol. 51 (2004): 407-417. PubMed: 14756782.
4. Sterne, M. "The Immunization of Laboratory Animals against Anthrax." Onderstepoort J. Vet. Sci. Anim. Ind. 13 (1939): 313-317.

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