

Product Information Sheet for NR-9540

Genomic DNA from *Bacillus anthracis*, Strain Sterne BA723 (Δ lef243)

Catalog No. NR-9540

This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor:

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Manufacturer:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Product Description:

Genomic DNA was isolated from a preparation of *Bacillus anthracis* (*B. anthracis*), strain Sterne BA723 (Δ lef243). Note: The designation BA723 refers to the numbering system used in the Stibitz laboratory.

B. anthracis, strain Sterne BA723 (Δ lef243) is a derivative of *B. anthracis*, strain Sterne 7702. The Sterne BA723 (Δ lef243) strain is a 2,424 base pair deletion mutant.¹ The complete genome of *B. anthracis*, strain Sterne has been sequenced (GenBank: [AE017225](#)).²

NR-9540 has been qualified for PCR applications by amplification of approximately 1500 bp of the 16S ribosomal RNA gene. The presence of pXO1 (but absence of the *lef* gene) and the absence of pXO2 in NR-9540 have been confirmed by PCR amplification of plasmid-specific sequences from extracted DNA.

Material Provided:

Each vial contains 4 to 6 μ g 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-9540 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 obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Bacillus anthracis*, Strain Sterne BA723 (Δ lef243), NR-9540."

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.

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References:

1. Janes, B. K. and S. Stibitz. "Routine Markerless Gene Replacement in *Bacillus anthracis*." Infect. Immun. 74 (2006): 1949-1953. PubMed: 16495572.
2. Rasko, D. A., et al. "Genomics of the *Bacillus cereus* Group of Organisms." FEMS Microbiol. Rev. 29 (2005): 303-329. PubMed: 15808746.

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