

Genomic DNA from Geobacillus stearothermophilus, Strain NCA 1518 (CIP 52.81)

Catalog No. NR-2549

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Contributor:

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Product Description:

Genomic DNA was isolated from a preparation of *Geobacillus stearothermophilus*, strain NCA 1518 (CIP 52.81).

Geobacillus stearothermophilus (formerly Bacillus stearothermophilus)¹ is a Gram-positive, spore-forming, aerobic microorganism with a high optimal growth temperature (45–70°C) that is widely distributed in nature. Geobacillus stearothermophilus, strain NCA 1518 was isolated from under-processed canned food at the National Canners Association, Washington, DC.²

NR-2549 has been qualified for PCR applications by amplification of ~ 740 bp of 16S ribosomal RNA.

Material Provided:

Each vial contains $1-3 \mu g$ of dried bacterial genomic DNA. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-2549 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 *Geobacillus stearothermophilus*, Strain NCA 1518 (CIP 52.81), NR-2549."

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. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 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. Nazina, T. N., et al. "Taxonomic Study of Aerobic Thermophilic Bacilli: Descriptions of Geobacillus subterraneus gen. nov., sp. nov. and Geobacillus uzenensis sp. nov. from Petroleum Reservoirs and Transfer of Bacillus stearothermophilus, Bacillus thermo-Bacillus thermoleovorans, catenulatus. Bacillus kaustophilus, Bacillus thermoglucosidasius and Bacillus thermodenitrificans to Geobacillus as the New stearothermophilus, Combinations G. G. thermocatenulatus, G. thermoleovorans, G. kaustophilus, G. thermoglucosidasius and G. thermodenitrificans." Int. J. Syst. Evol. Microbiol. 51 (2001): 433-446. PubMed: 11321089.
- Donk, P. J. "A Highly Resistant Thermophilic Organism." J. Bacteriol. 5 (1920): 373–374. PubMed: 16558885.
- McMullan, G., et al. "Habitat, Applications and Genomics of the Aerobic, Thermophilic Genus *Geobacillus.*" <u>Biochem. Soc. Trans</u>. 32 (2004): 214–217. PubMed: 15046574.

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