

### Genomic DNA from *Lysinibacillus sphaericus*, Strain Ford 25 (CCM 2177)

Catalog No. NR-2548

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**Contributor:**  
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#### Product Description:

Genomic DNA was isolated from a preparation of *Lysinibacillus sphaericus* (*L. sphaericus*), strain Ford 25. *L. sphaericus* is also referred to as *Bacillus sphaericus*.<sup>1,2</sup>

*L. sphaericus* is a mesophilic, strictly aerobic, spore-forming bacillus. These bacteria metabolize a variety of organic and amino acids but cannot metabolize sugars.<sup>3</sup> During sporulation some strains of *L. sphaericus* synthesize a parasporal crystal which contains proteins that are toxic to the larvae of a variety of mosquito species.<sup>3,4</sup>

NR-2548 has been qualified for PCR applications by amplification of ~ 755 bp of the 16S ribosomal RNA.

#### Material Provided:

Each vial contains 1 to 3 µg of dried bacterial genomic DNA. The vial should be centrifuged prior to opening.

#### Packaging/Storage:

NR-2548 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 *Lysinibacillus sphaericus*, Strain Ford 25 (CCM 2177), NR-2548."

#### 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/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

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#### References:

1. Euzéby, J. "Notification that New Names and New Combinations Have Appeared in Volume 57, Part 5, of the IJSEM." *Int. J. Syst. Evol. Microbiol.* 57 (2007): 1675-1676. PubMed: 17684234.
2. Ahmed, I., et al. "Proposal of *Lysinibacillus boronitolerans* gen. nov. sp. nov., and Transfer of *Bacillus fusiformis* comb. nov. and *Bacillus sphaericus* to *Lysinibacillus sphaericus* comb. nov." *Int. J. Syst. Evol. Microbiol.* 57 (2007): 1117-1125. PubMed: 17473269.
3. Woodburn, M. A., A. A. Yousten, and K. H. Hilu. "Random Amplified Polymorphic DNA Fingerprinting of Mosquito-Pathogenic and Nonpathogenic Strains of *Bacillus sphaericus*." *Int. J. Syst. Bacteriol.* 45 (1995): 212-217. PubMed: 7727272.
4. Baumann, P., et al. "*Bacillus sphaericus* as a Mosquito Pathogen: Properties of the Organism and Its Toxin." *Microbiol. Rev.* 55 (1991): 425-436. PubMed: 1682792.

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