

Genomic DNA from *Bacillus licheniformis*, Strain NRS 712

Catalog No. NR-2541

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Contributor:

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Product Description:

Genomic DNA was isolated from a preparation of *Bacillus licheniformis*, strain NRS 712.

Bacillus licheniformis (*B. licheniformis*) is a Gram-positive, spore-forming, facultative anaerobe that is widely distributed as a saprophytic organism in the environment.¹ It is a common contaminant in raw milk and its spores are highly resistant to pasteurization treatments. In addition, *B. licheniformis* can cause a variety of infections in humans including meningitis. *B. licheniformis* is used to manufacture enzymes, antibiotics, and biochemicals.¹

B. licheniformis, strain NRS 712 was isolated in 1938 from flour² and reportedly produces D-glutamic acid polypeptide.³

NR-2541 has been qualified for PCR applications by amplification of ~ 735 bp of the 16S ribosomal RNA.

Material Provided:

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

Packaging/Storage:

NR-2541 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 licheniformis*, Strain NRS 712, NR-2541.”

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.

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References:

1. Rey, M. W., et al. “Complete Genome Sequence of the Industrial Bacterium *Bacillus licheniformis* and Comparisons with Closely Related *Bacillus* Species.” Genome Biol. 5 (2004): R77.1–R77.12. PubMed: 15461803.
2. Smith, N. R., R. E. Gordon, and F. E. Clarke. “Aerobic Spore Forming Bacteria.” U.S. Dep. Agric. Monogr. 16 (1952): 1–148.
3. Mark, S. S., et al. “A Heavy Metal Biotrap for Wastewater Remediation Using Poly-γ-Glutamic Acid.” Biotechnol. Prog. 22 (2006): 523–531. PubMed: 16599572.

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