Genomic DNA from *Bacillus cereus*, Strain NRS 201

**Catalog No. NR-2539**

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**Contributor:**
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**Product Description:**
Genomic DNA was isolated from a preparation of *Bacillus cereus*, strain NRS 201.

*Bacillus cereus* is a Gram-positive, spore-forming, facultative aerobe. This organism is a ubiquitous opportunistic pathogen that can cause food poisoning in infected individuals. There are two forms of food poisoning that occur. The early onset (emetic) disease is caused by a small stable dodecadepsipeptide cerulide¹ whereas the late onset (diarrheal) disease is caused by a heat labile enterotoxin.² Genetic and genomic analyses have revealed that the chromosome of *Bacillus cereus* is very similar to *Bacillus anthracis*.³ Most *B. cereus* strains produce β-lactamases and are resistant to β-lactam antimicrobial agents.⁴

*Bacillus cereus*, strain NRS 201 was isolated from blood by L. Siribaed⁵ and deposited in the ATCC® by Dr. N. R. Smith as *Bacillus siamensis*.⁶ The strain reportedly has enterotoxin activity⁷ and does not produce zwitermicin A.⁸

NR-2539 has been qualified for PCR applications by amplification of ~ 725 bp of the 16S ribosomal RNA gene.

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

**Packaging/Storage:**
NR-2539 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 cereus*, Strain NRS 201, NR-2539."

**Biosafety Level:**
1


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**References:**
4. Fabiane, S. M., et al. “Crystal Structure of the Zinc-Dependent β-Lactamase from *Bacillus cereus* at 1.9 Å Resolution: Binuclear Active Site with Features of a

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