

Bacillus cereus, Strain NRS 201

Catalog No. NR-2488

(Derived from ATCC[®] 7064[™])

For research use only. Not for human use.

Contributor: ATCC[®]

Product Description:

Bacteria Classification: Bacillaceae, Bacillus <u>Species</u>: Bacillus cereus <u>Strain</u>: NRS 201 <u>Original Source</u>:¹ Isolated from blood by L. Siribaed

<u>Comments:</u> Bacillus cereus, strain NRS 201 was deposited at ATCC[®] by Dr. N. R. Smith as Bacillus siamensis.² This strain reportedly has enterotoxin activity³ and does not produce zwittermicin A.⁴

Bacillus cereus (B. cereus) is a Gram-positive, sporeforming, 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 cerulide⁵ whereas the late onset (diarrheal) disease is caused by heat-labile enterotoxins.⁶ Genetic and genomic analyses have revealed that the chromosome of *B. cereus* is very similar to *Bacillus anthracis.*⁷ Most *B. cereus* strains produce β -lactamases and are resistant to β -lactam antimicrobial agents.⁸

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy Broth supplemented with 20% glycerol.

<u>Note</u>: If homogeneity is required for your intended use, please colony-purify prior to initiating work.

Packaging/Storage:

NR-2488 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media: Tryptic Soy Broth Tryptic Soy Agar Incubation: Temperature: 25°C Atmosphere: Aerobic <u>Propagation:</u> 1. Keep vial frozen until ready for use; thaw slowly.

- 2. Transfer the entire thawed aliquot into a single tube of broth.
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- 4. Incubate the tubes and plate at 25°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Bacillus cereus*, Strain NRS 201, NR-2488."

Biosafety Level: 2

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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