

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-608

Bacillus cereus, Strain FDA 5

Catalog No. NR-608

(Derived from ATCC® 10702™)

For research use only. Not for human use.

Contributor:

ATCC[®]

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Bacillaceae, Bacillus

Species: Bacillus cereus

Strain: FDA 5

Original Source: Bacillus cereus (B. cereus), strain FDA 5 was derived from strain Lederle 5, a laboratory isolate that was used for the determination of aureomycin in body fluids in the late 1940s.¹

B. 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 cerulide² whereas the late onset (diarrheal) disease is caused by heat-labile enterotoxins.³ Genetic and genomic analyses have revealed that the chromosome of *B. cereus* is very similar to *B. anthracis*.⁴

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-608 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 or equivalent

Tryptic Soy agar with 5% sheep blood or equivalent

Incubation:

Temperature: 28°C to 37°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 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.
- Incubate the tube, slant and/or plate at 37°C for 24 to 48 hours

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Bacillus cereus*, Strain FDA 5, NR-608."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898



SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-608

References:

- Dornbush, A. C. and E. J. Pelcak. "The Determination of Aureomycin in Serum and Other Body Fluids." <u>Ann. N. Y.</u> <u>Acad. Sci.</u> 51 (1948): 218-220. PubMed: 18112229.
- Agata, N., et al. "A Novel Dodecadepsipeptide, Cereulide, Is an Emetic Toxin of Bacillus cereus." <u>FEMS</u> Microbiol. Lett. 129 (1995): 17-20. PubMed: 7781985.
- 3. Drobniewski, F. A. "Bacillus cereus and Related Species." Clin. Microbiol. Rev. 6 (1993): 324-338. PubMed: 8269390.
- Ash, C., et al. "Comparative Analysis of Bacillus anthracis, Bacillus cereus, and Related Species on the Basis of Reverse Transcriptase Sequencing of 16S rRNA." <u>Int. J. Syst. Bacteriol.</u> 41 (1991): 343-346. PubMed: 1715736.
- Rasko, D. A., et al. "Genomics of the *Bacillus cereus* Group of Organisms." <u>FEMS Microbiol. Rev.</u> 29 (2005): 303-329. PubMed: 15808746.
- Priest, F. G., et al. "Population Structure and Evolution of the *Bacillus cereus* Group." <u>J. Bacteriol.</u> 186 (2004): 7959-7970. PubMed: 15547268.

ATCC[®] is a trademark of the American Type Culture Collection.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

NR-608_29JUL2013