

***Bacillus cereus*, Strain AND1407**

**Catalog No. NR-22159**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Bacillaceae*, *Bacillus*

Species: *Bacillus cereus* (also referred to as *Bacillus cereus*  
Group 17 (BCG17)<sup>1</sup>)

Strain: AND1407

Original Source: *Bacillus cereus* (*B. cereus*), strain AND1407  
was isolated in 2002 from a blackcurrant sample collected  
in Denmark.<sup>2</sup>

Comments: *B. cereus*, strain AND1407 is part of a *Bacillus*  
*cereus* Database Sequencing Project at the [Broad Institute](#).  
The complete genome sequence of *B. cereus*, strain  
AND1407 is available (GenBank: [AHCM01000000](#)).

*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 cerulide<sup>3</sup> whereas the late onset  
(diarrheal) disease is caused by heat-labile enterotoxins.<sup>4</sup>  
Genetic and genomic analyses have revealed that the  
chromosome of *B. cereus* is very similar to *B. anthracis*.<sup>5</sup>

Clinical and environmental isolates of *B. cereus* containing  
large plasmids that share a common backbone with *B.*  
*anthracis* pXO1 and pXO2, have been identified.<sup>6,7</sup> The  
pXO1-like plasmid has demonstrated significant homology to  
*B. anthracis* pXO1 and harbors the entire anthrax toxin  
biosynthetic complex.<sup>7</sup> The pXO2-like plasmid contains genes  
capable of capsule production, however, they are not  
homologous to the *B. anthracis* capsule genes found on  
pXO2.<sup>8</sup>

**Material Provided:**

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

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

**Packaging/Storage:**

NR-22159 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 Nutrient broth or equivalent  
Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated  
sheep blood or Nutrient agar 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.
4. Incubate the tube, slant and/or plate at 37°C for 1 to 2  
days.

**Citation:**

Acknowledgment for publications should read "The following  
reagent was obtained through BEI Resources, NIAID, NIH:  
*Bacillus cereus*, Strain AND1407, NR-22159."

**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. Biosafety in  
Microbiological and Biomedical Laboratories. 5th ed.  
Washington, DC: U.S. Government Printing Office, 2009; see  
[www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

**Disclaimers:**

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**References:**

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