

Bacillus sp., Strain 1180

Catalog No. NR-52266

(Derived from ATCC® 39152™)

For research use only. Not for use in humans.

Contributor:

ATCC®

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Bacillaceae*, *Bacillus*

Species: *Bacillus* sp.

Strain: 1180

Original Source: *Bacillus* sp., strain 1180 was originally isolated by P. Fitz-James and deposited at ATCC® by University of Western Ontario as *B. cereus* subsp. *israelensis*.

Comments: NR-52266 was previously classified as *Bacillus thuringiensis*; however, in-house sequencing and digital DNA-DNA Hybridization data (dDDH) was only able to confirm to the genus level.

Bacillus species are Gram-positive, motile, sporulating, facultative anaerobes and thermophilic rod-shaped bacteria found in a variety of environments, including soil and food. Several species are used in biotechnology and agricultural applications.¹ While most species are harmless, members of the *B. cereus* subgroup are responsible for food poisoning and infections of the skin, blood and nervous system. Of particular concern is *B. anthracis*, the cause of anthrax, a potentially fatal infection of the skin, gastrointestinal tract and/or respiratory system, and a potential bioterrorist agent.²

Material Provided:

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

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

Packaging/Storage:

NR-52266 was packaged aseptically in 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:

Nutrient broth or Tryptic Soy broth or equivalent
Nutrient agar or Tryptic Soy agar or equivalent

Incubation:

Temperature: 30°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 30°C for 1 to 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Bacillus* sp., Strain 1180, NR-52266."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Mongkolthanaruk, W. "Classification of *Bacillus* Beneficial Substances Related to Plants, Humans and Animals." J. Microbiol. Biotechnol. 22 (2012): 1597-1604. PubMed: 23221520.
2. Drobniewski, F. A. "*Bacillus cereus* and Related Species." Clin. Microbiol. Rev. 6 (1993): 324-338. PubMed: 8269390.

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