

# Product Information Sheet for NR-52261

## ***Bacillus paranthracis*, Strain PCI 246**

### **Catalog No. NR-52261**

(Derived from ATCC® 13061™)

**For research use only. Not for use in humans.**

#### **Contributor:**

ATCC®

#### **Manufacturer:**

BEI Resources

#### **Product Description:**

Bacteria Classification: *Bacillaceae*, *Bacillus*

Species: *Bacillus paranthracis*

Strain: PCI 246

Original Source: *Bacillus paranthracis* (*B. paranthracis*), strain PCI 246 was originally deposited at ATCC® as *B. cereus* Frankland and Frankland.

Comments: NR-52261 is reported to produce penicillinase beta-lactamase I. *B. paranthracis*, strain PCI 246 was previously classified as *Bacillus cereus*; however, in-house sequencing and digital DNA-DNA Hybridization (dDDH) data has identified this strain as *Bacillus paranthracis*.

*B. paranthracis* is a thermophilic, Gram-positive, spore-forming, facultative anaerobe bacilli originally isolated from sediment of the Pacific Ocean.<sup>1</sup> It is a recently identified member of the *B. cereus* group and may be a potential human pathogen, as it has been isolated from a small number of clinical isolates.<sup>2,3</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-52261 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 paranthracis*, Strain PCI 246, NR-52261."

#### **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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Liu, Y., et al., "Proposal of Nine Novel Species of *Bacillus cereus* group." Int. J. Syst. Evol. Microbiol. 67 (2017): 2499-2508. PubMed: 28792367.
2. Matson, M. J., et al. "*Bacillus paranthracis* Isolate from Blood of Fatal Ebola Virus Disease Case." Pathogens 9 (2020): 475. PubMed: 32560095.
3. Bukharin, O. V., et al. "Genome Sequence Announcement of *Bacillus paranthracis* Strain ICIS-279, Isolated from Human Intestine." Microbiol. Resour. Announc. 8 (2019): e00662-19. PubMed: 31672737.

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