

***Paenibacillus barengoltzii*, Strain
CC33_002B**

Catalog No. HM-1049

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Paenibacillaceae*, *Paenibacillus*

Species: *Paenibacillus barengoltzii*

Strain: CC33_002B

Original Source: *Paenibacillus barengoltzii* (*P. barengoltzii*), strain CC33_002B was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.^{1,2}

Comments: *P. barengoltzii*, strain CC33_002B ([HMP ID 1192](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *P. barengoltzii*, strain CC33_002B is currently being sequenced at the [Broad Institute](#).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

P. barengoltzii is a Gram-positive, strictly aerobic, spore-forming, rod-shaped bacterium that is motile by means of peritrichous flagella.³ Strains of *P. barengoltzii* have been isolated from geothermal regions, spacecraft assembly equipment, and human clinical samples.^{3,4}

Material Provided:

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

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

Packaging/Storage:

HM-1049 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:

Nutrient broth or equivalent

Nutrient 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 48 to 72 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Paenibacillus barengoltzii*, Strain CC33_002B, HM-1049."

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.

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References:

1. E. Allen-Vercoe, Personal Communication.
2. [HMP ID 1192](#) (*P. barengoltzii*, strain CC33_002B)
3. Osman, S., M. Satomi and K. Venkateswaran. "Paenibacillus pasadenensis Sp. nov. and Paenibacillus barengoltzii Sp. nov., Isolated from a Spacecraft Assembly Facility." *Int. J. Syst. Evol. Microbiol.* 56 (2006): 1509-1514. PubMed: 16825621.
4. Arzu, C. C., et al. "The Genetic Diversity of Genus *Bacillus* and the Related Genera Revealed by 16S rRNA Gene Sequences and Ardra Analyses Isolated from Geothermal Regions of Turkey." *Braz. J. Microbiol.* 43 (2012): 309-324. PubMed: 24031834.

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