

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-785

Paenibacillus sp., Strain HGH0039

Catalog No. HM-785

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Paenibacillaceae, Paenibacillus

Species: Paenibacillus sp.

Strain: HGH0039

Original Source: Paenibacillus sp., strain HGH0039 was isolated from a biopsy of large intestine mucosa of a human subject in the United States.

Comments: Paenibacillus sp., strain HGH0039 (HMP ID 1207) is a reference genome for The Human Microbiome HMP is an initiative to identify and Project (HMP). characterize human microbial flora. The complete genome of Paenibacillus sp., strain HGH0039 was sequenced at the Broad Institute (GenBank: AGEN00000000).

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.

Paenibacillus sp. are Gram-positive, Gram-negative or Gramvariable, facultative anaerobes or strictly aerobic, sporeforming, rod-shaped bacterium that are motile by means of peritrichous flagella.² These bacteria have been isolated from geothermal regions, spacecraft assembly equipment, and human clinical samples.

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:

HM-785 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. Freezethaw cycles should be avoided.

Growth Conditions:

Nutrient broth or equivalent Nutrient agar or equivalent

Incubation:

Temperature: 30°C Atmosphere: Aerobic

Propagation:

- Keep vial frozen until ready for use, then thaw.
- 2. Transfer the entire thawed aliquot into a single tube of
- 3. Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tube, slant and/or plate at 30°C for 2 to 4

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: Paenibacillus sp., Strain HGH0039, HM-785."

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/bmbl5/index.htm.

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References:

- 1. Schmidt, T. M., Personal Communication.
- Shida, O., et al. "Transfer of Bacillus alginolyticus, Bacillus chondroitinus, Bacillus curdlanolyticus, Bacillus glucanolyticus, Bacillus kobensis, and Bacillus thiaminolyticus to the Genus Paenibacillus and Emended Description of the Genus Paenibacillus." Int. J. Syst. Bacteriol. 47 (1997): 289-298. PubMed: 9103612.
- 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.
 Arzu, C. C., et al. "The Genetic Diversity of Genus
- 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." <u>Braz. J. Microbiol.</u> 43 (2012): 309-324. PubMed: 24031834.

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