

Product Information Sheet for HM-231

***Bacillus sp.*, Strain 7_6_55CFAA_CT2**

Catalog No. HM-231

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Bacillaceae*, *Bacillus*

Species: *Bacillus sp.*

Strain: 7_6_55CFAA_CT2

Original Source: *Bacillus sp.*, strain 7_6_55CFAA_CT2 was isolated in 2007 from a healthy gut biopsy specimen taken from a patient with Crohn's disease in Calgary, Alberta, Canada.^{1,2}

Comments: *Bacillus sp.*, strain 7_6_55CFAA_CT2 (HMP ID 1014) 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 *Bacillus sp.*, strain 7_6_55CFAA_CT2 was sequenced at the [Broad Institute](#) (GenBank: [ACWE00000000](#)).

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.

Bacillus sp. is a Gram-positive, motile, sporulating, facultative anaerobic and thermophilic rod-shaped bacterium.³

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-231 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 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 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Bacillus sp.*, Strain 7_6_55CFAA_CT2, HM-231."

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. [HMP ID 1014](#) (*Bacillus* sp., strain 7_6_55CFAA_CT2)
2. Singh, M. and D. Sareen. "Novel LanT Associated Lantibiotic Clusters Identified by Genome Database Mining." *PLoS One* 9 (2014): e91352. PubMed: 24621781.
3. Porwal, S., et al. "Phylogeny in Aid of the Present and Novel Microbial Lineages: Diversity in *Bacillus*." *PLoS One* 4 (2009): e4438. PubMed: 19212464.

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