

Product Information Sheet for HM-1280

Citrobacter freundii, Strain GED7749C

Catalog No. HM-1280

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Citrobacter*

Species: *Citrobacter freundii*

Strain: GED7749C

Original Source: *Citrobacter freundii* (*C. freundii*), strain GED7749C is a vaginal isolate obtained in 2014 from a pregnant woman in St. Louis, Missouri, USA.^{1,2}

Comments: *C. freundii*, strain GED7749C ([HMP ID 3212](#)) 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 *C. freundii*, strain GED7749C was sequenced at the Genome Institute at [Washington University](#) (GenBank: [LRPR00000000.1](#)).

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.

C. freundii is a facultatively anaerobic, typically motile, Gram-negative bacillus that occasionally inhabits human and animal intestines as well as soil, water, sewage and food. In rare cases, it can cause significant opportunistic infections particularly in neonates and debilitated or immunocompromised individuals.^{3,4,5}

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-1280 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: 37°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 37°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Citrobacter freundii*, Strain GED7749C, HM-1280."

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Lewis, A., Personal Communication.
2. [HMP ID 3212](#) (*Citrobacter freundii*, strain GED7749C)
3. Bai, L., et al. "Isolation and Characterization of Cytotoxic, Aggregative *Citrobacter freundii*." *PLoS One* 7 (2012): e33054. PubMed: 22470435.
4. Doran, T. I. "The Role of *Citrobacter* in Clinical Disease of Children: Review." *Clin. Infect. Dis.* 28 (1999): 384-394. PubMed: 10064257.
5. Lozano-Leon, A., et al. "*Citrobacter freundii* Infection after Acute Necrotizing Pancreatitis in a Patient with a Pancreatic Pseudocyst: A Case Report." *J. Med. Case Rep.* 5 (2011): 51. PubMed: 21299889.

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