

***Citrobacter* sp., Strain 30_2**

Catalog No. HM-34

For research use only. Not for human use.

Contributor:

Emma Allen-Vercoe, Assistant Professor, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Citrobacter*

Species: *Citrobacter* sp. (Deposited to BEI Resources as *Citrobacter freundii* but listed as *Citrobacter* sp. in HMP catalog and GenBank.)

Strain: 30_2

Original Source: *Citrobacter* sp., strain 30_2 was isolated from an inflamed terminal ileum biopsy specimen taken from a 23-year-old female patient with active Crohn's disease in Calgary, Alberta, Canada.^{1,2}

Comments: *Citrobacter* sp., strain 30_2 (HMP ID 0207) 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 *Citrobacter* sp. 30_2 is currently being sequenced at the [Broad Institute](#) (GenBank: [ACDJ00000000](#)).

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.

Citrobacter species are facultatively anaerobic, typically motile, Gram-negative bacilli that occasionally inhabit human and animal intestines as well as soil, water, sewage and food. Organisms of the *Citrobacter* genus are the rare cause of infections in neonates and debilitated or immunocompromised individuals.³

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-34 was packaged aseptically, in screw-capped plastic 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:

Tryptic Soy Broth or equivalent

Tryptic Soy 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 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: *Citrobacter* sp., Strain 30_2, HM-34."

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, 2007; see <http://www.cdc.gov/biosafety/publications/bmb15/index.htm>.

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References:

1. Professor Emma Allen-Vercoe, personal communication.
2. [HMP 0207](#) (*Citrobacter* sp., strain 30_2)
3. Doran, T. I. "The Role of *Citrobacter* in Clinical Disease of Children: Review." Clin. Infect. Dis. 28 (1999): 384-394. PubMed: 10064257.
4. O'Hara, C. M., S. B. Roman, and J. M. Miller. "Ability of Commercial Identification Systems to Identify Newly Recognized Species of *Citrobacter*." J. Clin. Microbiol. 33 (1995): 242-245. PubMed: 7699052.

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