

***Citrobacter portucalensis*, Strain 4\_7\_47CFAA**

**Catalog No. HM-299**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Enterobacteriaceae*, *Citrobacter*

Species: *Citrobacter portucalensis* (previously classified as *Citrobacter freundii*)

Strain: 4\_7\_47CFAA

Original Source: *Citrobacter portucalensis* (*C. portucalensis*), strain 4\_7\_47CFAA was isolated in 2007 from inflamed biopsy tissue taken from the sigmoid colon of a 25-year-old female patient with Crohn's disease in Calgary, Alberta, Canada.<sup>1,2</sup>

Comments: *C. portucalensis*, strain 4\_7\_47CFAA ([HMP ID 9428](#)) 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. portucalensis*, strain 4\_7\_47CFAA was sequenced at the [Broad Institute](#) (GenBank: [ADLG00000000](#)).

**Note:** *C. portucalensis*, strain 4\_7\_47CFAA was previously classified as *Citrobacter freundii*. 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. portucalensis* is a facultatively anaerobic, typically motile, Gram-negative bacillus. *Citrobacter* species are members of human and animal intestinal flora and have isolated from environmental sources, such as soil, water, sewage and food. Some species are also causative agents of opportunistic infections and have been found to have chromosomal antibiotic resistance genes, including *qnrB* (conferring resistance to fluoroquinolones) and *bla<sub>CMY-2</sub>* (conferring resistance to cephalosporins).<sup>1</sup>

**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-299 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 portucalensis*, Strain 4\_7\_47CFAA, HM-299."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Allen-Vercoe, E., Personal communication.
2. [HMP ID 9428](#) (*Citrobacter portucalensis*, strain 4\_7\_47CFAA)
3. Ribeiro, T. G., et al. "*Citrobacter portucalensis* sp. nov., Isolated from an Aquatic Sample." *Int. J. Syst. Evol. Microbiol.* 67 (2017): 3513-3517. PubMed: 28857032.

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