

Clostridium citroniae*, Strain WAL-17108*Catalog No. HM-315****For research use only. Not for human use.****Contributor:**

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Clostridiaceae*, *Clostridium*

Species: *Clostridium citroniae*

Strain: WAL-17108

Original Source: *Clostridium citroniae* (*C. citroniae*), strain WAL-17108 was isolated from the stool of an autistic boy.¹

Comments: *C. citroniae*, strain WAL-17108 ([HMP ID 9469](#)) 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. citroniae*, strain WAL-17108 has been sequenced at the [Broad Institute](#) (GenBank: [ADLJ00000000](#)).

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. citroniae is an obligately anaerobic bacteria and part of normal human gastrointestinal flora, where it has been isolated from intra-abdominal and lower gastrointestinal infections.^{2,3} *C. citroniae* differs from most *Clostridium* species in that it stains Gram-negative and spores are rarely observed.² *C. citroniae* and *C. aldenense* are recent additions to the *C. clostridioforme* complex, which also includes *C. bolteae*, *C. clostridioforme* and *C. hathewayi*.^{2,3}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Reinforced Clostridial broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-315 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:

Modified Reinforced Clostridial broth or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

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 two to three days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Clostridium citroniae*, Strain WAL-17108, HM-315."

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/bmb15/index.htm.

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its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. [HMP ID 9469](#) (*C. citroniae*, strain WAL-17108)
2. Warren, Y. A., et al. "*Clostridium aldenense* sp. nov. and *Clostridium citroniae* sp. nov. Isolated from Human Clinical Infections." *J. Clin. Microbiol.* 44 (2006): 2416-2422. PubMed: 16825358.
3. Finegold, S. M., et al. "*Clostridium clostridioforme*: A Mixture of Three Clinically Important Species." *Eur. J. Clin. Microbiol. Infect. Dis.* 24 (2005): 319-324. PubMed: 15891914.

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