

***Clostridium aldenense*, Strain WAL-18727**

**Catalog No. HM-307**

**For research use only. Not for use in humans.**

**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: *Clostridiaceae*, *Clostridium*

Species: *Clostridium aldenense*

Strain: WAL-18727

Original Source: *Clostridium aldenense* (*C. aldenense*), strain WAL-18727 was isolated from the stool of a sister of an autistic child.<sup>1,2</sup>

Comments: *C. aldenense*, strain WAL-18727 ([HMP ID 9468](#)) 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. aldenense*, strain WAL-18727 is currently being sequenced at the [Broad Institute](#).

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. aldenense* is a Gram-positive, spore-forming, obligately anaerobic bacteria that is part of normal human gut flora.<sup>3</sup> It differs from most *Clostridium* species in that it typically stains Gram negative and spores may be difficult to find.<sup>3,4</sup> *C. aldenense* and *C. citroniae* are recent additions to the *C. clostridioforme* complex, which includes *C. bolteae*, *C. clostridioforme* and *C. hathewayi*.<sup>3,5</sup> *C. aldenense* can be pathogenic in rare circumstances.<sup>4</sup>

**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-307 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 2 to 4 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 aldenense*, Strain WAL-18727, HM-307."

**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](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. [HMP ID 9468](#) (*C. aldenense*, strain WAL-18727)
2. Allen-Vercoe, E., Personal Communication.
3. 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.
4. Williams, O. M., et al. "A Review of Three Cases of *Clostridium aldenense* Bacteremia." *Anaerobe* 16 (2010): 475-477. PubMed: 20800690.
5. 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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