Product Information Sheet for HM-1038

Enterocloster bolteae, Strain CC43_001B

Catalog No. HM-1038

For research use only. Not for use in humans.

Contributors:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Clostridiaceae*, *Clostridium*
Species: *Enterocloster bolteae* (Previously referred to as *Clostridium bolteae*, this genus has been reclassified and the genus designation on the vial label refers to the old nomenclature.[1])
Strain: CC43_001B
Original Source: *Enterocloster bolteae (E. bolteae)*, strain CC43_001B was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.[2]
Comments: *E. bolteae*, strain CC43_001B (HMP ID 1184) 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 *E. bolteae*, strain CC43_001B 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.

E. bolteae is a Gram-positive, spore-forming, obligately anaerobic bacteria that is part of normal human gut flora.[3,4] *E. bolteae* was known previously as part of the *C. clostridioforme* complex, along with *C. hathewayi* and *C. clostridioforme*.[4] Although present in stools of most children, counts of *E. bolteae* have been higher in autistic children than in controls.[5] *E. bolteae* strains have been isolated from normal human feces, blood and intra-abdominal pus.[2]

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-1038 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 Modified Chopped Meat medium 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 1 to 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Enterocloster bolteae*, Strain CC43_001B, HM-1038."

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/bmbl5/index.htm.

Disclaimers:

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References:

1. Haas, K. N. and J. L. Blanchard. " Reclassification of the *Clostridium clostridioforme* and *Clostridium sphenoides* Clades as *Enterocloster* gen. nov. and *Lacrimispora* gen. nov., including Reclassification of 15 Taxa." Int. J. Syst. Evol. Microbiol. 70 (2020): 23-34. PubMed: 31782700.
2. Allen-Vercoe, E., Personal Communication.
3. Song, Y., et al. "*Clostridium bolteae* sp. nov., Isolated from Human Sources." Syst. Appl. Microbiol. 26 (2003): 84-89. PubMed: 12747414.
4. 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.
5. Song, Y., C. Liu and S. M. Finegold. "Real-Time PCR Quantitation of Clostridia in Feces of Autistic Children." Appl. Environ. Microbiol. 70 (2004): 6459-6465. PubMed: 15528506.

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