Product Information Sheet for HM-1043

Lachnospiraceae sp., Strain CC70A (Deposited as *Clostridium lentocellum*)

Catalog No. HM-1043

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Clostridiales, Lachnospiraceae*
Family: *Lachnospiraceae* sp. (HM-1043 was deposited as *Clostridium lentocellum*, however, it has been determined that the depositor's 16S ribosomal RNA gene sequence and the 16S ribosomal RNA gene sequence obtained from HM-1043 align more favorably with *Lachnospiraceae* sp. The organism on the label is incorrect and does not reflect the current taxonomic update.)
Strain: CC70A
Original Source: *Lachnospiraceae* sp., strain CC70A was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.[1]
Comments: *Lachnospiraceae* sp., strain CC70A (HMP ID 1180) 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 *Lachnospiraceae* sp., strain CC70A 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.

Lachnospiraceae species are usually strictly anaerobic, non-spore-forming, non-motile, rod-shaped bacteria. *Lachnospiraceae* species have a Gram-positive cell wall but some strains have been reported to stain Gram-variable or Gram-negative depending on the duration of growth.[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-1043 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 1 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: *Lachnospiraceae* sp., Strain CC70A (Deposited as *Clostridium lentocellum*), HM-1043."

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.

Disclaimers:
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References:

1. Allen-Vercoe, E., Personal Communication.
2. Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." Anaerobe 17 (2011): 206-210. PubMed: 21699990.