Lachnospiraceae sp., Strain 2_1_58FAA

Catalog No. HM-154

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Clostridiales*, *Lachnospiraceae*
Family: *Lachnospiraceae*
Strain: 2_1_58FAA
Original Source: *Lachnospiraceae* sp., strain 2_1_58FAA was obtained in 2007 from inflamed biopsy tissue taken from the descending colon of a 39-year-old female patient with ulcerative colitis.[1]
Comments: *Lachnospiraceae* sp., strain 2_1_58FAA (HMP ID 0991) 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 2_1_58FAA was sequenced at the Broad Institute (GenBank: ACTO00000000).
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 Trypticase-Yeast (TY) Extract broth supplemented with 10% glycerol.

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

Packaging/Storage:
HM-154 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:
Trypticase-Yeast Extract (TYE) broth or equivalent[4]
Tryptic Soy Agar with 5% 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 3 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 2_1_58FAA, HM-154."

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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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.
3. Sizova, M. V., et al. "New Approaches for Isolation of Previously Uncultivated Oral Bacteria." Appl. Environ. Microbiol. 78 (2012): 194-203. PubMed: 22057871.

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