

Product Information Sheet for HM-157

Lachnospiraceae sp., Strain 5_1_57FAA

Catalog No. HM-157

For research use only. Not for human use.

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: *Clostridiales*, *Lachnospiraceae*

Family: *Lachnospiraceae*

Strain: 5_1_57FAA

Original Source: *Lachnospiraceae* sp., strain 5_1_57FAA was obtained from inflamed biopsy tissue taken from the terminal ileum of a 22-year-old female patient with Crohn's disease.¹

Comments: *Lachnospiraceae* sp., strain 5_1_57FAA ([HMP ID 0993](#)) 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 5_1_57FAA was sequenced at the [Broad Institute](#) (GenBank: [ACTR000000000](#)).

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 structurally Gram-positive cell wall but some strains have been reported to stain Gram-variable or Gram-negative depending on duration of growth.²

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Modified Trypticase-Yeast Extract Broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-157 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 Trypticase-Yeast Extract Broth³ or equivalent

Tryptic Soy Agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (80% N₂:10% CO₂:10% H₂)

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 24 hours.

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 5_1_57FAA, HM-157."

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.

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References:

1. [HMP ID 0993](#) (*Lachnospiraceae* sp., strain 5_1_57FAA)
2. Rainey, F. A. "Family V. *Lachnospiraceae* fam. nov." Bergey's Manual of Systematic Bacteriology. Vol 3. 2nd Ed. New York: Springer, 2009. 921.
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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