

Product Information Sheet for HM-7

Lachnospiraceae sp., Oral Taxon 107, Strain F0167

Catalog No. HM-7

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Clostridiales*, *Lachnospiraceae*

Family: *Lachnospiraceae*

Subtaxon: Oral Taxon 107

Strain: F0167

Original Source: *Lachnospiraceae* sp., Oral Taxon 107, strain F0167 was isolated in March 1988 from the subgingival plaque of a 14-year-old human male.^{1,2}

Comments: *Lachnospiraceae* sp., Oral Taxon 107, strain F0167 ([HMP ID 0491](#)) 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., Oral Taxon 107, strain F0167 was sequenced at the [Broad Institute](#) (GenBank: [ADDS000000000](#)).

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 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.³

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-7 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 ([ATCC medium 2107](#)) 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 48 to 72 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., Oral Taxon 107, Strain F0167, HM-7."

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. Dr. Jacques Izard, personal communication.
2. [HMP ID 0491](#) (*Lachnospiraceae* sp., strain 6_1_63FAA)
3. Rainey, F. A. "Family V. *Lachnospiraceae* fam. nov." In [Bergey's Manual of Systematic Bacteriology, Volume 3](#). 2nd Ed. New York: Springer, 2009, p. 921.
4. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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