

Product Information Sheet for HM-558

***Lachnospiraceae* sp., Oral Taxon 082, Strain F0431**

Catalog No. HM-558

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Clostridiales*, *Lachnospiraceae*

Species: *Lachnospiraceae* sp.

Subtaxon: Oral Taxon 082

Strain: F0431

Original Source: *Lachnospiraceae* sp., Oral Taxon 082, strain F0431 was isolated in 2009 from molar tooth dental plaque of a caries-free 4-year-old female patient in the United States.^{1,2}

Comments: *Lachnospiraceae* sp., Oral Taxon 082, strain F0431 (HMP ID 9099) 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 082, strain F0431 was sequenced at the Genome Institute at [Washington University](#) (GenBank: [AGRL00000000](#)).

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 generally 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.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-558 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

Modified Reinforced Clostridial agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (90% N₂:5% CO₂:5% 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 082, Strain F0431, HM-558."

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. J. Izard, Personal Communication.
2. [HMP ID 9099](#) (*Lachnospiraceae* sp., Oral Taxon 082, strain F0431)
3. Lawson, P. A., et al. "Anaerobes: A Piece in the Puzzle for Alternative Biofuels." *Anaerobe* 17 (2011): 206-210. PubMed: 21699990.
4. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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