

***Leptotrichia goodfellowii*, Strain F0264**

**Catalog No. HM-12**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Lachnospiraceae*, *Oribacterium*

Species: *Leptotrichia goodfellowii*

Strain: F0264

Original Source: *Leptotrichia goodfellowii* (*L. goodfellowii*), strain F0264 was isolated in March 1979 from the subgingival plaque of a 23-year-old white male patient with experimental gingivitis in the United States.<sup>1</sup>

Comments: *L. goodfellowii*, strain F0264 ([HMP ID 0554](#)) 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 *L. goodfellowii*, strain F0264 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [ADAD00000000](#)).

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.

*L. goodfellowii* is a non-motile, anaerobic, Gram-negative rod normally found among microbial flora in the human mouth.<sup>2</sup> It has been implicated in rare cases of sepsis and endocarditis.<sup>3</sup>

**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-12 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% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>)

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 72 to 96 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Leptotrichia goodfellowii*, Strain F0264, HM-12."

**Biosafety Level: 1**

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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Jacques Izard, personal communication
2. Eribe, E. R., et al. "Genetic Diversity of *Leptotrichia* and Description of *Leptotrichia goodfellowii* Sp. Nov., *Leptotrichia hofstadii* Sp. Nov., *Leptotrichia shahii* Sp. Nov. and *Leptotrichia wadei* Sp. Nov." Int. J. Syst. Evol. Microbiol. 54 (2004): 583-592. PubMed: 15023979.
3. Caram, L. B., et al. "*Leptotrichia* Endocarditis: Report of Two Cases from the International Collaboration on Endocarditis (ICE) Database and Review of Previous Cases." Eur. J. Clin. Microbiol. Infect. Dis. 27 (2008): 139-143. PubMed: 17960435.
4. [HMP ID 0554](#) (*Leptotrichia goodfellowii*, strain F0264)
5. Thompson, J. and A. Pikis. "Metabolism of Sugars by Genetically Diverse Species of Oral *Leptotrichia*." Mol. Oral Microbiol. 27 (2012): 34-44. PubMed: 22230464.

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