

***Bacteroidetes*, Oral Taxon 274, Strain F0058**

**Catalog No. HM-4**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Bacteroidetes*, unclassified  
*Bacteroidetes*

Phylum: *Bacteroidetes*

Subtaxon: Oral Taxon 274

Strain: F0058

Original Source: *Bacteroidetes*, Oral Taxon 274, strain F0058 was isolated in November 1984 from the subgingival plaque of 39-year-old American male patient with moderate periodontitis.<sup>1</sup>

Comments: *Bacteroidetes*, Oral Taxon 274, strain F0058 (HMP ID 0156) 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 *Bacteroidetes*, Oral Taxon 274, strain F0058 was sequenced at the [Broad Institute](#) (GenBank: [ADCM00000000](#)).

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.

*Bacteroidetes* bacteria are typically anaerobic, non-sporeforming, Gram-negative, rod-shaped bacteria that are found widely distributed in the environment, especially in soils, aquatic environments, and in the guts and on the skin of insects and mammals.<sup>2,3</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 5% DMSO.

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

**Packaging/Storage:**

HM-4 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:

Brain Heart Infusion broth or equivalent  
Fastidious Anaerobic agar 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 7 days.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Bacteroidetes*, Oral Taxon 274, Strain F0058, HM-4."

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

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**References:**

1. Izard, J., Personal Communication.
2. Martens, E. C., et al. "Complex Glycan Catabolism by the Human Gut Microbiota: the *Bacteroidetes* Sus-like Paradigm." *J. Biol. Chem.* 284 (2009): 24673-24677. PubMed: 19553672.
3. Gupta, R. S. "The Phylogeny and Signature Sequences Characteristics of *Fibrobacteres*, *Chlorobi*, and *Bacteroidetes*." *Crit. Rev. Microbiol.* 30 (2004): 123-143. PubMed: 15239383.
4. [HMP ID 0156](#) (*Bacteroidetes*, Oral Taxon 274, strain F0058)

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