

# Product Information Sheet for HM-41

## *Fusobacterium periodonticum*, Strain 1\_A\_54/D10

Catalog No. HM-41

**For research use only. Not for use in humans.**

### Contributor:

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### Manufacturer:

BEI Resources

### Product Description:

Bacteria Classification: *Fusobacteriaceae*, *Fusobacterium*

Species: *Fusobacterium periodonticum*

Strain: 1\_A\_54/D10

Original Source: *Fusobacterium periodonticum*

(*F. periodonticum*), strain 1\_A\_54/D10 was isolated in 2007 from an oral swab taken from a 74-year-old male patient with active Crohn's disease in Calgary, Alberta, Canada.<sup>1,2</sup>

Comments: *F. periodonticum*, strain 1\_A\_54/D10 (HMP ID 0399) 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 *F. periodonticum*, strain 1\_A\_54/D10 was sequenced at the [Broad Institute](#) (GenBank: [ACIF00000000](#)).

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.

*F. periodonticum* is an obligately anaerobic, non-motile, non-sporulating, Gram-negative rod commonly found in the microflora of a normal human mouth and gut.<sup>3,4</sup> It is an opportunistic pathogen known for involvement in patients with periodontal disease, as well as other human pathologies such as colorectal cancer.<sup>5</sup>

### Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Chopped Meat broth supplemented with 10% glycerol.

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

### Packaging/Storage:

HM-41 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 Chopped Meat broth or equivalent

Tryptic Soy Agar with 5% sheep blood 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 1 to 2 days.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Fusobacterium periodonticum*, Strain 1\_A\_54/D10, HM-41."

### 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](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

### Disclaimers:

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**References:**

1. Allen-Vercor, E., Personal Communication.
2. [HMP ID 0399](#) (*Fusobacterium periodonticum*, strain 1\_A\_54/D10)
3. Slots, J., T. V. Potts and P. A. Mashimo. "*Fusobacterium periodonticum*, a New Species from the Human Oral Cavity." *J. Dent. Res.* 62 (1983): 960-963. PubMed: 6575999.
4. Strauss, J., et al. "Phenotypic and Genotypic Analyses of Clinical *Fusobacterium nucleatum* and *Fusobacterium periodonticum* Isolates from the Human Gut." *Anaerobe* 14 (2008): 301-309. PubMed: 19114111.
5. Manson McGuire, A., et al. "Evolution of Invasion in a Diverse Set of *Fusobacterium* Species." *mBio* 5 (2014): e01864. PubMed: 25370491.

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