

Product Information Sheet for HM-875

Fusobacterium sp., Strain OBRC1

Catalog No. HM-875

For research use only. Not for human use.

Contributor:

Maria V. Sizova, Ph.D., Department of Biology, Northeastern University, Boston, Massachusetts, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Fusobacteriaceae*, *Fusobacterium*

Species: *Fusobacterium* sp.

Strain: OBRC1

Original Source: *Fusobacterium* sp., strain OBRC1 is a human oral isolate.^{1,2}

Comments: *Fusobacterium* sp., strain OBRC1 ([HMP ID 1501](#)) 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 *Fusobacterium* sp., strain OBRC1 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [JANA000000000](#)).

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.

Fusobacterium species are obligately anaerobic, non-sporulating, Gram-negative, fusiform rods similar to *Bacteroides* species.³ *Fusobacteria* are ubiquitous in the normal flora of the oropharyngeal, gastrointestinal, and genitourinary tracts of healthy humans. If the host mucosal barrier weakens to allow these commensal organisms to reach the bloodstream, significant pathology may result including dental abscess formation, endocarditis, or other systemic infections.⁴

Material Provided:

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

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

Packaging/Storage:

HM-875 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 medium or equivalent

Tryptic Soy agar with 5% defibrinated 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 24 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: *Fusobacterium* sp., Strain OBRC1, HM-875."

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. Sizova, M. V., et al. "New Approaches for Isolation of Previously Uncultivated Oral Bacteria." Appl. Environ. Microbiol. 78 (2012): 194-203. PubMed: 22057871.
2. [HMP ID 1501](#) (*Fusobacterium* sp., strain OBRC1)
3. Conrads, G., et al. "16S-23S rDNA Internal Transcribed Spacer Sequences for Analysis of the Phylogenetic Relationships among Species of the Genus *Fusobacterium*." Int. J. Syst. Evol. Microbiol. 52 (2002): 493-499. PubMed: 11931161.
4. Bennett, K. W. and A. Eley. "*Fusobacteria*: New Taxonomy and Related Diseases." J. Med. Microbiol. 39 (1993): 246-254. PubMed: 8411084.

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