# Product Information Sheet for HM-369

## *Eubacterium infirmum*, Strain F0142

## Catalog No. HM-369

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

### Contributor:
Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts, USA

### Manufacturer:
BEI Resources

### Product Description:
Bacteria Classification: *Clostridiales Family XIII. Incertae Sedis*, *Eubacterium*
Species: *Eubacterium infirmum*
Strain: F0142
Original Source: *Eubacterium infirmum* (*E. infirmum*), strain F0142 was isolated in August 1982 from the subgingival dental plaque of a 23-year-old black female patient with periodontitis.[1,2]
Comments: *E. infirmum*, strain F0142 (HMP ID 380) 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 *E. infirmum*, strain F0142 was sequenced at the Broad Institute (GenBank: AGWI00000000).
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.

*E. infirmum* is an obligately anaerobic, non-sporulating, Gram-positive, rod-shaped bacterium commonly found in the flora of patients with periodontal disease and other oral infections.[3] It is rarely detected at healthy or treated oral sites, and is shown to be significantly associated with a history of diabetes.[4]

### Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Modified Reinforced Clostridia broth supplemented with 10% glycerol.

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

### Packaging/Storage:
HM-369 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
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 3 to 4 days.

### Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Eubacterium infirmum*, Strain F0142, HM-369."

### 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 http://www.cdc.gov/biosafety/publications/bmbl5/index.htm.

### Disclaimers:
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**References:**

1. Izard, J., Personal Communication.
2. HMP ID 380 (*E. infirmum*, strain F0142)
3. Cheeseman, S. L., et al. "Phylogeny of Oral Asaccharolytic *Eubacterium* Species Determined by 16S Ribosomal DNA Sequence Comparison and Proposal of *Eubacterium infirmum* sp. nov. and *Eubacterium tardum* sp. nov." Int. J. Syst. Bacteriol. 46 (1996): 957-959. PubMed: 8863423.
4. Fouad, A. F., et al. "Molecular Characterization of the Presence of *Eubacterium* spp. and *Streptococcus* spp. in Endodontic Infections." Oral Microbiol. Immunol. 18 (2003): 249-255. PubMed: 12823801.
5. Spratt, D. A., A. J. Weightman, and W. G. Wade. "Diversity of Oral Asaccharolytic *Eubacterium* Species in Periodontitis-Identification of Novel Phylotypes Representing Uncultivated Taxa." Oral Microbiol. Immunol. 14 (1999): 56-59. PubMed: 10204481.




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www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898