

Product Information Sheet for HM-556

Fusobacterium sp., Oral Taxon 370, Strain F0437

Catalog No. HM-556

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Fusobacteriaceae*, *Fusobacterium*

Species: *Fusobacterium* sp.

Subtaxon: Oral Taxon 370

Strain: F0437

Original Source: *Fusobacterium* sp., Oral Taxon 370, strain F0437 was isolated from a human oral cavity.¹

Comments: *Fusobacterium* sp., Oral Taxon 370, strain F0437 (HMP ID 9093) 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., Oral Taxon 370, strain F0437 is currently being sequenced at the Genome Institute at [Washington University](#) (GenBank: [AGAD00000000](#)).

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.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-556 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 ([ATCC medium 1490](#)) or equivalent

Tryptic Soy Agar with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (80% N₂:10% CO₂:10% H₂)

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 48 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., Oral Taxon 370, Strain F0437, HM-556."

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

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References:

1. [HMP 9093](#) (*Fusobacterium* sp., Oral Taxon 370, strain F0437)
2. 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.

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