# *Fusobacterium ulcerans*, Strain 12_1B (Deposited as *Fusobacterium* sp., Strain 12_1B)

## Catalog No. HM-57

## 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 ulcerans* (Previously referred to as *Fusobacterium* sp., this species has been reclassified and the species designation on the vial label refers to the old nomenclature.)[1]
Strain: 12_1B
Original Source: *Fusobacterium ulcerans (F. ulcerans)*, strain 12_1B was isolated in 2007 from a biopsy taken from the inflamed, ascending colon of a 19-year-old female patient with active Crohn's disease in Calgary, Alberta, Canada.[2,3]
Comments: *F. ulcerans*, strain 12_1B (HMP ID 0402) 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. ulcerans*, strain 12_1B was sequenced at the Broad Institute (GenBank: AGWJ00000000).
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. ulcerans* is an obligately anaerobic, non-motile, non-sporulating, Gram-negative rod that has been isolated from tropical skin ulcers.[4,5] In general, 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 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-57 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% 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 ulcerans*, Strain 12_1B (Deposited as *Fusobacterium* sp., Strain 12_1B), HM-57."

### 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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

### Disclaimers:
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## References:

1. Citron, D. M. "Update on the Taxonomy and Clinical Aspects of the Genus *Fusobacterium*." Clin. Infect. Dis. 35 (2002): S22-S27. PubMed: 12173104.
2. Allen-Vercoe, E., Personal Communication.
3. HMP ID 0402 (*Fusobacterium ulcerans*, strain 12_1B)
4. Adriaans, B. and H. Shah. "*Fusobacterium ulcerans* sp. nov. from Tropical Ulcers." Int. J. Syst. Bacteriol. 38 (1988): 447-448.
5. Adriaans, B. and H. Garelick. "Cytotoxicity of *Fusobacterium ulcerans*." J. Med. Microbiol. 29 (1989): 177-180. PubMed: 2746628.



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