Product Information Sheet for HM-260

Fusobacterium nucleatum subsp. *polymorphum,* Strain F0401

Catalog No. HM-260

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 nucleatum* subsp. *polymorphum,*
Strain: F0401 (also referred to as Isolate 12230 and Oral Clone BS019)
Original Source: *Fusobacterium nucleatum (F. nucleatum)* subsp. *polymorphum*, strain F0401 was isolated from a transtracheal biofilm from a healthy patient.[1,2]
Comments: *F. nucleatum* subsp. *polymorphum,* strain F0401 (HMP ID 9369) 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. nucleatum* subsp. *polymorphum,* strain F0401 was sequenced at the Broad Institute (GenBank: ADDB00000000.1).
Note: The updated version of this sequence in GenBank (ADDB00000000.2) was erroneously titled and is identical to the sequence of *Fusobacterium nucleatum* subsp. *animalis*, strain 7_1 (CP007062.1).[1] Please use the obsolete version for sequence information related to HM-260. 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. nucleatum subsp. *polymorphum* is an obligately anaerobic, non-sporulating, Gram-negative, rod-shaped bacterium of considerable interest to oral microbiologists.[3,4] It has been associated with periodontal disease but is commonly found in high numbers in healthy and successfully treated sites.

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-260 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 1 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: *Fusobacterium nucleatum* subsp. *polymorphum,* Strain F0401, HM-260."

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). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

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References:

1. Izard, J., Personal Communication.
2. HMP ID 9369 (*Fusobacterium nucleatum* subsp. *polymorphum,* Strain F0401)
3. Dzink, J. L., M. T. Sheenan and S. S. Socransky. "Proposal of Three Subspecies of *Fusobacterium nucleatum* Knorr 1922: *Fusobacterium nucleatum* subsp. *nucleatum* subsp. nov., comb. nov.; *Fusobacterium nucleatum* subsp. *polymorphum* subsp. nov., nom. rev., comb. nov.; and *Fusobacterium nucleatum* subsp. *vincentii* subsp. nov., nom. rev., comb. nov." Int. J. Syst. Bacteriol. 40 (1990): 74-78. PubMed: 2223601.
4. 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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