Product Information Sheet for HM-758

Fusobacterium nucleatum subsp. *animalis*, Oral Taxon 420, Strain F0419

Catalog No. HM-758

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Fusobacteriaceae*, *Fusobacterium*
Species: *Fusobacterium nucleatum* subsp. *animalis*
Subtaxon: Oral Taxon 420
Strain: F0419
Original Source: *Fusobacterium nucleatum* (*F. nucleatum*) subsp. *animalis*, Oral Taxon 420, strain F0419 was isolated in 2009 from the molar tooth surface of a 4-year-old female child lacking caries in the United States.[1,2]
Comments: *F. nucleatum* subsp. *animalis*, Oral Taxon 420, strain F0419 (HMP ID 9942) 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. *animalis*, Oral Taxon 420, strain F0419 was sequenced at the Broad Institute (GenBank: AKCE00000000).
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. nucleatum subsp. *animalis* is an obligately anaerobic, non-motile, non-sporulating, Gram-negative rod commonly found in normal microflora of the human oral and gastrointestinal tracts.[3] 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-758 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 3 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. *animalis*, Oral Taxon 420, Strain F0419, HM-758."

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 www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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 9942 (*F. nucleatum* subsp. *animalis*, Oral Taxon 420, strain F0419)
3. Gharbia, S. E. and H. N. Shah. "*Fusobacterium nucleatum* subsp. *fusiforme* subsp. nov. and *Fusobacterium nucleatum* subsp. *animalis* subsp. nov. as Additional Subspecies within *Fusobacterium nucleatum*." Int. J. Syst. Bacteriol. 42 (1992): 296-298. PubMed: 1581188.
4. Ribeiro, F. J., et al. "Finished Bacterial Genomes from Shotgun Sequence Data." Genome Res. 22 (2012): 2270-2277. PubMed: 22829535.