Fusobacterium nucleatum subsp. *animalis*, Strain D11

Catalog No. HM-75

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*
Strain: D11 (also referred to as strain 2_1_50B)
Original Source: *Fusobacterium nucleatum* (*F. nucleatum*) subsp. *animalis*, strain D11 was isolated in 2007 from normal biopsy tissue taken from the decending colon of a 19-year-old woman with inactive Crohn's disease in Calgary, Alberta, Canada.[1,2]
Comments: *F. nucleatum* subsp. *animalis*, strain D11 (HMP ID 0679) 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*, strain D11 was sequenced at the Broad Institute (GenBank: ACDS00000000).
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.[4]

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-75 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 (80% N_2:20% CO_2)
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 24 to 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 nucleatum* subsp. *animalis*, Strain D11, HM-75."

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:
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References:

1. E. Allen-Vercoe, Personal Communication.
2. HMP ID 0679 (*F. nucleatum* subsp. *animalis*, strain D11)
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. Bennett, K. W. and A. Eley. "Fusobacteria: New Taxonomy and Related Diseases." J. Med. Microbiol. 39 (1993): 246-254. PubMed: 8411084.