

***Capnocytophaga sputigena*, Strain
CC21_001D**

Catalog No. HM-1037

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Flavobacteriaceae, Capnocytophaga*

Species: *Capnocytophaga sputigena*

Strain: CC21_001D

Original Source: *Capnocytophaga sputigena* (*C. sputigena*), strain CC21_001D was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.¹

Comments: *C. sputigena*, strain CC21_001D ([HMP ID 1200](#)) 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 *C. sputigena*, strain CC21_001D is currently being sequenced at the [Broad Institute](#).

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.

C. sputigena is a capnophilic Gram-negative bacilli that is part of normal human oral flora.² It has been reported to cause extra-oral infections in both immunocompetent and immunocompromised patients, including septicemia, bacteremia, osteomyelitis, keratitis and chorioamnionitis.³⁻⁶ *C. sputigena* is susceptible to most antibiotics, although there are reports of strains with resistance to beta-lactams.⁷

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-1037 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 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: *Capnocytophaga sputigena*, Strain CC21_001D, HM-1037."

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/bmb15/index.htm.

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References:

1. Allen-Vercoe, E., Personal Communication.
2. Leadbetter, E. R., S. C. Holt and S. S. Socransky. "Capnocytophaga: New Genus of Gram-Negative Gliding Bacteria. I. General Characteristics, Taxonomic Considerations and Significance. Arch. Microbiol. 122 (1979): 9-16. PubMed: 518239.
3. Kim, J. A., S. K. Hong and E. C. Kim. "Capnocytophaga sputigena Bacteremia in a Patient with Chronic Lymphocytic Leukemia." Ann. Lab. Med. 34 (2014): 325-327. PubMed: 24982840.
4. Duong, M., et al. "Vertebral Osteomyelitis Due to Capnocytophaga Species in Immunocompetent Patients: Report of Two Cases and Review." Clin. Infect. Dis. 22 (1996): 1099-1101. PubMed: 8783720.
5. Douvier, S., et al. "Chorioamnionitis with Intact Membranes Caused by Capnocytophaga sputigena." Eur. J. Obstet. Gynecol. Reprod. Biol. 83 (1999): 109-112. PubMed: 10221619.
6. Piau, C., "Capnocytophaga spp. Involvement in Bone Infections: A Review." Int. J. Antimicrob. Agents 41 (2013): 509-515. PubMed: 23642766.
7. Jolivet-Gougeon, A., et al. "Antimicrobial Treatment of Capnocytophaga Infections." Int. J. Antimicrob. Agents 29 (2007): 367-373. PubMed: 17250994.

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