

***Capnocytophaga* sp., Oral Taxon 336,
Strain F0502**

Catalog No. HM-840

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Flavobacteriaceae*, *Capnocytophaga*

Species: *Capnocytophaga* sp.

Subtaxon: Oral Taxon 336

Strain: F0502

Original Source: *Capnocytophaga* sp., Oral Taxon 336, strain F0502 was isolated in September 2008 from molar tooth supra-gingival dental plaque of a 3-year-old male patient with no dental caries in Boston, Massachusetts, USA.^{1,2}

Comments: *Capnocytophaga* sp., Oral Taxon 336, strain F0502 ([HMP ID 1528](#)) 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 *Capnocytophaga* sp., Oral Taxon 336, strain F0502 was sequenced at the [Broad Institute](#) (Genbank: [ATCI01000000](#)).

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.

Capnocytophaga species are capnophilic, Gram-negative rods that are part of normal human oral flora, and have been reported to cause extra-oral infections in both immunocompetent and immunocompromised patients, including septicemia, bacteremia, osteomyelitis, keratitis and chorioamnionitis.³⁻⁶ *Capnocytophaga* species are susceptible to most antibiotics, although there are reports of strains with resistance to beta-lactams.⁶

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Chopped Meat broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

HM-840 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 broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or

Trypticase Soy Yeast Extract agar 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 2 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: *Capnocytophaga* sp., Oral Taxon 336, Strain F0502, HM-840."

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](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbli5/index.htm.

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References:

1. Dewhirst, F. E. and J. Izard, Personal Communication.
2. [HMP ID 1528](#) (*Capnocytophaga* sp., Oral Taxon 336, strain F0502)
3. 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.
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. Piau, C., et al. "Capnocytophaga spp. Involvement in Bone Infections: A Review." Int. J. Antimicrob. Agents 41 (2013): 509-515. PubMed: 23642766.
6. Jolivet-Gougeon, A., et al. "Antimicrobial Treatment of *Capnocytophaga* Infections." Int. J. Antimicrob. Agents 29 (2007): 367-373. PubMed: 17250994.

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