Bacteroides ovatus, Strain 3_8_47FAA

Catalog No. HM-222

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Bacteroidaceae, Bacteroides*
Species: *Bacteroides ovatus*
Strain: 3_8_47FAA
Original Source: *Bacteroides ovatus (B. ovatus)*, strain 3_8_47FAA was isolated from inflamed biopsy tissue taken from the sigmoid colon of a 25-year-old female patient with Crohn's disease.[1,2]
Comments: *B. ovatus*, strain 3_8_47FAA (HMP ID 1017) 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 *B. ovatus*, strain 3_8_47FAA was sequenced at the Broad Institute (GenBank: ACWH00000000).
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.

B. ovatus is a Gram-negative, anaerobic, non-motile commensal bacterium that inhabits the distal mammalian gut[3] and has been implicated in the pathology of human inflammatory bowel disease.[4]

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-222 was packaged aseptically, in screw-capped plastic 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 additional broth tubes, 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: *Bacteroides ovatus*, Strain 3_8_47FAA, HM-222."

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

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References:

1. Allen-Vercoe, E., Personal Communication.
2. HMP 1017 (*Bacteroides ovatus*, strain 3_8_47FAA)
3. Cato, E. P. and J. L. Johnson. "Reinstatement of Species Rank for *Bacteroides fragilis*, *B. ovatus*, *B. distasonis*, *B. thetaiotaomicron*, and *B. vulgatus*: Designation of Neotype Strains for *Bacteroides fragilis* (Veillon and Zuber) Castellani and Chalmers and *Bacteroides thetaiotaomicron* (Distaso) Castellani and Chalmers." Int. J. Syst. Bacteriol. 26 (1976): 230-237.
4. Saitoh, S., et al. "*Bacteroides ovatus* as the Predominant Commensal Intestinal Microbe Causing a Systemic Antibody Response in Inflammatory Bowel Disease." Clin. Diagn. Lab. Immunol. 9 (2002): 54-59. PubMed: 11777829.
5. Wexler, H. M. "*Bacteroides*: the Good, the Bad, and the Nitty-Gritty." Clin. Microbiol. Rev. 20 (2007): 593-621. PubMed: 17934076.

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