Flavonifractor plautii, Strain 1_3_50AFAA

Catalog No. HM-303

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Oscillospiraceae, Flavonifractor*
Species: *Flavonifractor plautii (*Previously referred to as *Clostridium orbiscindens*, the genus and species have been reclassified and the vial label refers to the old nomenclature*)*[1]
Strain: 1_3_50AFAA
Original Source: *Flavonifractor plautii (F. plautii),* strain 1_3_50AFAA was isolated from healthy tissue taken from the descending colon of a 19-year-old female with Crohn's disease.[2,3]
Comments: *Flavonifractor plautii,* strain 1_3_50AFAA (HMP ID 9460) 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. plautii* 1_3_50AFAA was sequenced at the Broad Institute (GenBank: ADLO00000000).
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. plautii is a strictly anaerobic, motile, Gram-variable, rod-shaped bacterium.[4] It is a normal inhabitant of the gastrointestinal tract of humans and animals, but it can be pathogenic in certain circumstances. *F. plautii* strains have been isolated from normal human feces, blood, intra-abdominal pus and infected soft tissues.[1]

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-303 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: *Flavonifractor plautii*, Strain 1_3_50AFAA, HM-303."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:

1. Carlier, J. P., et al. "Proposal to Unify *Clostridium orbiscindens* Winter *et al.* 1991 and *Eubacterium plautii* (Séguin 1928) Hofstad and Aasjord 1982, with Description of *Flavonifractor plautii* gen. nov., comb. nov., and Reassignment of *Bacteroides capillosus* to *Pseudoflavonifractor capillosus* gen. nov., comb. nov." Int. J. Syst. Evol. Microbiol. 60 (2010): 585-590. PubMed: 19654357.
2. Allen-Vercoe, E., Personal Communication.
3. HMP 9460 (*Flavonifractor plautii, strain 1_3_50AFAA*)
4. Winter, J., et al. "*Clostridium orbiscindens* sp. nov., a Human Intestinal Bacterium Capable of Cleaving the Flavonoid C-Ring." Int. J. Syst. Bacteriol. 41 (1991): 355-357. PubMed: 1883711.
5. Schoefer, L., et al. "Anaerobic Degradation of Flavonoids by *Clostridium orbiscindens*." Appl. Environ. Microbiol. 69 (2003): 5849-5854. PubMed: 14532034.

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