Product Information Sheet for HM-178

Eubacterium sp., Strain 3_1_31

Catalog No. HM-178

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Eubacteriaceae*, *Eubacterium*
Species: *Eubacterium* sp.
Strain: 3_1_31
Original Source: *Eubacterium* sp., strain 3_1_31 was isolated from inflamed biopsy tissue taken from the ascending colon of a 25-year-old female patient with Crohn's disease in Calgary, Alberta, Canada, in 2007.[1,2]
Comments: *Eubacterium* sp., strain 3_1_31 (HMP ID 0984) 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 *Eubacterium* sp., strain 3_1_31 is currently being sequenced at the Broad Institute (GenBank: ACTL00000000).
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.

Eubacterium species are anaerobic, non-sporulating, Gram-positive, rod-shaped bacteria commonly found in the oropharynx and gastrointestinal flora of animals and humans. They are also found in plant and animal products, in infections of soft tissue, and in soil and water. Some *Eubacterium* species are opportunistic pathogens, especially in patients with periodontal disease and other oral infections.[3,4,5,6,7]

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-178 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 (ATCC medium 1490) 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 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: *Eubacterium* sp., Strain 3_1_31, HM-178."

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. 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. Allen-Vercoe, E., Personal Communication.
2. HMP ID 0984 (*Eubacterium* sp., strain 3_1_31)
3. Fouad, A. F., et al. "Molecular Characterization of the Presence of *Eubacterium* spp. and *Streptococcus* spp. in Endodontic Infections." Oral Microbiol. Immunol. 18 (2003): 249-255. PubMed: 12823801.
4. Spratt, D. A., A. J. Weightman and W. G. Wade. "Diversity of Oral Asaccharolytic *Eubacterium* Species in Periodontitis--Identification of Novel Phylotypes Representing Uncultivated Taxa." Oral Microbiol. Immunol. 14 (1999): 56-59. PubMed: 10204481.
5. Nakazawa, F. and E. Hoshino. "Immunological Specificity of Oral *Eubacterium* Species." J. Gen. Microbiol. 139 (1993): 2635-2640. PubMed: 8277247.
6. Sungkanuparph, S., S. Chansirikarnjana and M. Vorachit. "Eubacterium Bacteremia and Colon Cancer." Scand. J. Infect. Dis. 34 (2002): 941-943. PubMed: 12587635.
7. Mukherjee, A., et al. "Gut Microbes from the Phylogenetically Diverse Genus *Eubacterium* and their Various Contributions to Gut Health." Gut Microbes 12 (2020): 1802866. PubMed: 32835590.

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