

Bacteroides* sp., Strain 2_1_16*Catalog No. HM-58****For research use only. Not for human use.****Contributor:**

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Bacteroidaceae*, *Bacteroides*

Species: *Bacteroides* sp.

Strain: 2_1_16

Original Source: *Bacteroides* sp., strain 2_1_16 was isolated in 2007 from healthy biopsy tissue taken from the descending colon of a 58-year-old female patient undergoing a colonoscopy as part of a colon cancer screen procedure in Calgary, Alberta, Canada.^{1,2}

Comments: *Bacteroides* sp., strain 2_1_16 (HMP ID 0101) 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 *Bacteroides* sp., strain 2_1_16 was sequenced at the [Broad Institute](#) (GenBank: [ACPP00000000](#)).

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.

Bacteroides species are anaerobic, mesophilic, non-motile, Gram-negative rods that have the highest antibiotic resistance rates of all anaerobic pathogens. These bacteria maintain a complex and usually beneficial host relationship when retained in the gut, but when they escape this environment they can cause significant pathology, including bacteremia and abscess formation in multiple body sites.³

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Modified Reinforced Clostridial broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-58 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 Reinforced Clostridial broth, Modified Chopped Meat Medium or equivalent

Tryptic Soy agar with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (90% N₂:5% CO₂:5% H₂)

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 48 to 72 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Bacteroides* sp., Strain 2_1_16, HM-58."

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/bmb15/index.htm.

Disclaimers:

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References:

1. E. Allen-Vercoe, Personal Communication.
2. [HMP ID 0101](#) (*Bacteroides* sp., strain 2_1_16)
3. 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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