

***Bacteroides* sp., Strain 2\_1\_22**

**Catalog No. HM-18**

**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\_22

**Original Source:** *Bacteroides* sp., strain 2\_1\_22 was isolated from biopsy tissue taken from the ascending colon of a healthy 54-year old female undergoing a colon cancer screen procedure in Calgary, Alberta, Canada in 2007.<sup>1,2</sup>

**Comments:** *Bacteroides* sp., strain 2\_1\_22 ([HMP ID 0102](#)) 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\_22 was sequenced at the [Broad Institute](#) (GenBank: [ACPQ00000000](#)).

*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.<sup>3</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-18 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°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% sheep blood or equivalent

**Incubation:**

Temperature: 37°C

Atmosphere: Anaerobic (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>)

**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 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\_22, HM-18."

**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/bmb15/index.htm>.

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**References:**

1. Professor Emma Allen-Vercoe, personal communication.
2. [HMP ID 0102](#) (*Bacteroides* sp., strain 2\_1\_22)
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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