

***Parabacteroides* sp., Strain 20\_3  
(Deposited as *Bacteroides* sp., Strain 20\_3)**

**Catalog No. HM-166**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Porphyromonadaceae*;

*Parabacteroides* (Note: The label on the vial is incorrect; the correct genus is *Parabacteroides*, changes to nomenclature occurred in 2006.<sup>1</sup>)

Species: *Parabacteroides* sp.

Strain: 20\_3

Original Source: *Parabacteroides* sp., strain 20\_3 was isolated in 2007 from healthy biopsy tissue taken from the colon of a 49-year-old female patient undergoing a colonoscopy as part of a colon cancer screen procedure in Calgary, Alberta, Canada.<sup>2,3</sup>

Comments: *Parabacteroides* sp., strain 20\_3 (HMP ID 9008) 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 *Parabacteroides* sp., strain 20\_3 was sequenced at the [Broad Institute](#) (GenBank: [ACRQ00000000](#)).

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.

*Parabacteroides* species are Gram-negative, obligately anaerobic, non-motile bacteria that are both normal colonic commensals and opportunistic pathogens.<sup>1,4</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 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-166 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% N<sub>2</sub>:5% CO<sub>2</sub>:5% 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 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: *Parabacteroides* sp., Strain 20\_3 (Deposited as *Bacteroides* sp., Strain 20\_3), HM-166."

**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](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Sakamoto, M. and Y. Benno. "Reclassification of *Bacteroides distasonis*, *Bacteroides goldsteinii* and *Bacteroides merdae* as *Parabacteroides distasonis* gen. nov., comb. nov., *Parabacteroides goldsteinii* comb. nov. and *Parabacteroides merdae* comb. nov." Int. J. Syst. Evol. Microbiol. 56 (2006): 1599-1605. PubMed: 16825636.
2. E. Allen-Vercoe, Personal Communication.
3. HMP ID 9008 (*Parabacteroides* sp., strain 20\_3)
4. Boente, R. F., et al. "Detection of Resistance Genes and Susceptibility Patterns in *Bacteroides* and *Parabacteroides* Strains." Anaerobe 16 (2010): 190-194. PubMed: 20159050.

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