

***Parabacteroides distasonis*, Strain 31_2
(Deposited as *Porphyromonas* sp., Strain 31_2)**

Catalog No. HM-169

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Porphyromonadaceae*,
Parabacteroides

Species: *Parabacteroides distasonis* (HM-169 was deposited as *Porphyromonas* sp.; however, this organism has been reclassified since the depositor's 16S ribosomal RNA gene sequence and the 16S ribosomal RNA gene sequence obtained from HM-169 align more favorably with *P. distasonis*.)

Strain: 31_2

Original Source: This strain was isolated from a human fecal sample.¹

Comments: *Parabacteroides distasonis* (*P. distasonis*), strain 31_2 (HMP ID 1002) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome for *P. distasonis*, strain 31_2 was sequenced at the [Broad Institute](#) (GenBank: [ACUD00000000.1](#)).

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.

P. distasonis is an obligately anaerobic, non-sporulating, non-motile, Gram-negative rod that is one of the most common species isolated from human feces.^{2,3,4}

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-169 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 broth or equivalent
Tryptic Soy Agar with 5% 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 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: *Parabacteroides distasonis*, Strain 31_2 (Deposited as *Porphyromonas* sp., Strain 31_2), HM-169."

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.

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References:

1. [HMP 1002](#) (*Porphyromonas* sp., strain 31_2, the HMP website has not been updated with the reclassification to *Parabacteroides distasonis*)
2. 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.
3. Cato, E. P. and J. L. Johnson. "Reinstatement of Species Rank for *Bacteroides fragilis*, *B. ovatus*, *B. distasonis*, *B. thetaiotaomicron*, and *B. vulgatus*: Designation of Neotype Strains for *Bacteroides fragilis* (Veillon and Zuber) Castellani and Chalmers and *Bacteroides thetaiotaomicron* (Distaso) Castellani and Chalmers." *Int. J. Syst. Bacteriol.* 26 (1976): 230-237.
4. Eggerth, A. H. and B. H. Gagnon. "The *Bacteroides* of Human Feces." *J. Bacteriol.* 25 (1933): 389-413. PubMed: 16559622.
5. 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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