

***Bacteroides dorei*, Strain 5_1_36/D4**

Catalog No. HM-29

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Bacteroidaceae*, *Bacteroides*

Species: *Bacteroides dorei*

Strain: 5_1_36/D4

Original Source: *Bacteroides dorei* (*B. dorei*), strain 5_1_36/D4 was isolated in 2007 from inflamed biopsy tissue taken from the terminal ileum of a 45-year-old male patient with Crohn's disease in Alberta, Canada.^{1,2}

Comments: *B. dorei*, strain 5_1_36/D4 ([HMP ID 0136](#)) 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 *B. dorei*, strain 5_1_36/D4 was sequenced at the [Broad Institute](#) (GenBank: [ACDI00000000](#)).

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.

B. dorei is a Gram-negative, anaerobic, non-motile bacterium typically isolated from the gastrointestinal tract and feces of humans.³⁻⁵ Little is known of the pathogenic potential of *B. dorei*, as clinical data is scarce for this organism.^{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-29 was packaged aseptically, in screw-capped plastic 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 or Modified Chopped Meat broth 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 1 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: *Bacteroides dorei*, Strain 5_1_36/D4, HM-29."

Biosafety Level: 1

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.

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References:

1. Allen-Vercoe, E., Personal Communication.
2. [HMP ID 0136](#) (*Bacteroides dorei*, strain 5_1_36/D4)
3. Bakir, M. A., et al. "*Bacteroides dorei* sp. nov., Isolated from Human Faeces." *Int. J. Syst. Evol. Microbiol.* 56 (2006): 1639-1643. PubMed: 16825642.
4. Sánchez, E., et al. "Intestinal *Bacteroides* Species Associated with Coeliac Disease." *J. Clin. Pathol.* 63 (2010): 1105-1111. PubMed: 20972239.
5. Wexler, H. M. "*Bacteroides*: the Good, the Bad, and the Nitty-Gritty." *Clin. Microbiol. Rev.* 20 (2007): 593-621. PubMed: 17934076.
6. Pedersen, R. M., E. S. Marmolin and U. S. Justesen. "Species Differentiation of *Bacteroides dorei* from *Bacteroides vulgatus* and *Bacteroides ovatus* from *Bacteroides xylanisolvens* - Back to Basics." *Anaerobe* 24 (2013): 1-3. PubMed: 23994205.
7. Thomson, P., et al. "Anti-Inflammatory Effect of Microbial Consortia During the Utilization of Dietary Polysaccharides." *Food Res. Int.* 109 (2018): 14-23. PubMed: 29803436.

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