

Product Information Sheet for HM-45

Prevotella buccae, Strain D17

Catalog No. HM-45

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Prevotellaceae*, *Prevotella*

Species: *Prevotella buccae*

Strain: D17 (also referred to as strain 3_A_6B)

Original Source: *Prevotella buccae* (*P. buccae*), strain D17 was isolated in 2007 from an oral swab taken from a healthy male adult in Canada.^{1,2}

Comments: *P. buccae*, strain D17 ([HMP_ID_0649](#)) 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 *P. buccae*, strain D17 was sequenced at the [Broad Institute](#) (GenBank: [ACRB000000000](#)).

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. buccae is a Gram-negative, obligately anaerobic, non-motile, non-sporulating, rod-shaped bacterium usually found in the microflora of the human mouth, particularly in patients with periodontal disease.³ Although not viewed as virulent as some oral microorganisms, there are rare cases which demonstrate the potential for *P. buccae* to cause serious infection.^{4,5}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Reinforced Clostridial broth supplemented with 5% DMSO.

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

Packaging/Storage:

HM-45 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 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 1 to 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Prevotella buccae*, Strain D17, HM-45."

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/bmbl5/index.htm.

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References:

1. Allen-Vercoe, E., Personal Communication.
2. [HMP ID 0649](#) (*Prevotella buccae*, strain D17)
3. Holdeman, L. V., et al. "*Bacteroides oris* and *Bacteroides buccae*, New Species from Human Periodontitis and Other Human Infections." *Int. J. Syst. Bacteriol.* 32 (1982): 125-131.
4. Mohammadi, I., et al. "*Prevotella buccae* Bacteraemia Associated with Infection of a Pseudoaneurysm." *Eur. J. Vasc. Endovasc. Surg.* 15 (1998): 175-176. PubMed: 9551059.
5. Fanourgiakis, P. S., et al. "*Prevotella buccae* Bacteremia and Febrile Neutropenia: Report of One Case." *Hosp. Chron.* 1 (2006): 49-51.
6. Shah, H. N. and D. M. Collins. "*Prevotella*, a New Genus to Include *Bacteroides melaninogenicus* and Related Species Formerly Classified in the Genus *Bacteroides*." *Int. J. Syst. Bacteriol.* 40 (1990): 205-208. PubMed: 2223612.

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