

Product Information Sheet for HM-8

Propionibacterium acidifaciens, Strain F0233

Catalog No. HM-8

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Propionibacteriaceae*, *Propionibacterium*

Species: *Propionibacterium acidifaciens*

Subtaxon: Oral Taxon 191

Strain: F0233

Original Source: *Propionibacterium acidifaciens* (*P. acidifaciens*), strain F0233 was isolated in March 1983 from the subgingival plaque of a 53-year-old black male patient with moderate periodontitis.^{1,2}

Comments: *P. acidifaciens*, strain F0233 ([HMP ID 0682](#)) 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. acidifaciens*, strain F0233 was sequenced at the [J. Craig Venter Institute](#). (GenBank: [ACVN000000000](#)).

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. acidifaciens is a non-motile, Gram-positive, anaerobic, rod-shaped bacillus found in the human mouth. It is known for opportunistic infections in patients with periodontal disease.³

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-8 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 (ATCC® medium 2107) 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 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: *Propionibacterium acidifaciens*, Strain F0233, HM-8."

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Izard, J., Personal Communication.
2. [HMP 0682](#) (*P. acidifaciens*, strain F0233)
3. Downes, J. and W. Wade. "*Propionibacterium acidifaciens* sp. nov., Isolated from the Human Mouth." *Int. J. Syst. Evol. Microbiol.* 59 (2009): 2778-2781. PubMed: 19625418.
4. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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