

Propionibacterium sp., Oral Taxon 192, Strain F0372

Catalog No. HM-843

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Propionibacteriaceae*,

Propionibacterium, Oral Taxon 192

Species: *Propionibacterium* sp.

Strain: F0372

Original Source: *Propionibacterium* sp., Oral Taxon 192, strain F0372 is an oral isolate obtained from a human in USA.^{1,2}

Comments: *Propionibacterium* sp., Oral Taxon 192, strain F0372 ([HMP ID 1531](#)) 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 *Propionibacterium* sp., Oral Taxon 192, strain F0372 was sequenced at the [Broad Institute](#) (GenBank: [ATFL01000000](#)).

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.

Propionibacterium species are typically anaerobic-aerotolerant, non-motile, non-sporeforming, Gram-positive rods that are members of the normal microflora of human skin and mucosa; some species are found in dairy products.³ *Propionibacterium* species are usually nonpathogenic but in rare cases can cause acne, as well as serious conditions such as dental and postoperative-joint infections, and endocarditis.⁴⁻⁷

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy Yeast Extract broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-843 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:

Tryptic Soy Yeast Extract broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or Tryptic

Soy Yeast Extract agar 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 4 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* sp., Oral Taxon 192, Strain F0372, HM-843."

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. Izard, J., Personal Communication.
2. [HMP ID 1531](#) (*Propionibacterium* sp., Oral Taxon 192, strain F0372)
3. Meile, L., G. Le Blay and A. Thierry. "Safety Assessment of Dairy Microorganisms: *Propionibacterium* and *Bifidobacterium*." *Int. J. Food Microbiol.* 126 (2008): 316-320. PubMed: 17889391.
4. Jakab, E., et al. "Severe Infections Caused by *Propionibacterium acnes*: An Underestimated Pathogen in Late Postoperative Infections." *Yale J. Biol. Med.* 69 (1996): 477-482. PubMed: 9436290.
5. Kanafani, Z. A., et al. "Postoperative Joint Infections Due to *Propionibacterium* Species: A Case-Control Study." *Clin. Infect. Dis.* 49 (2009): 1083-1085. PubMed: 19725786.
6. Sohail, M. R., et al. "Infective Endocarditis Due to *Propionibacterium* Species." *Clin. Microbiol. Infect.* 15 (2009): 387-394. PubMed: 19260876.
7. Clayton, J. J., et al. "Endocarditis Caused by *Propionibacterium* Species: A Report of Three Cases and a Review of Clinical Features and Diagnostic Difficulties." *J. Med. Microbiol.* 55 (2006): 981-987. PubMed: 16849716.

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