

***Cutibacterium acnes*, Strain HL030PA1  
(Deposited as *Propionibacterium acnes*,  
HL030PA1)**

**Catalog No. HM-504**

**For research use only. Not for use in humans.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Propionibacteriaceae*, *Cutibacterium*  
Species: *Cutibacterium acnes* (Previously referred to as  
*Propionibacterium acnes*, this family has been reclassified  
and the family designation on the vial label refers to the old  
nomenclature.)<sup>1</sup>

Strain: HL030PA1

Original Source: *Cutibacterium acnes* (*C. acnes*), strain  
HL030PA1 was isolated from human skin.<sup>2</sup>

Comments: *C. acnes*, strain HL030PA1 ([HMP ID 9601](#)) 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 *C. acnes*,  
strain HL030PA1 was sequenced at the Genome Institute at  
[Washington University](#) (GenBank: [ADYB00000000](#)).

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.

*C. acnes* is a non-motile, Gram-positive, anaerobic rod that  
resides in hair follicles of the human skin.<sup>3,4</sup> It may cause  
severe infections at various body sites, particularly in the  
presence of a foreign body.<sup>4</sup>

**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-504 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% 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 2-3  
days. Broth cultures should include shaking.

**Citation:**

Acknowledgment for publications should read "The following  
reagent was obtained through BEI Resources, NIAID, NIH as  
part of the Human Microbiome Project: *Cutibacterium acnes*,  
Strain HL030PA1, HM-504."

**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](#). 6th ed.  
Washington, DC: U.S. Government Printing Office, 2020; see  
[www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

**Disclaimers:**

You are authorized to use this product for research use only.  
It is not intended for human use.

Use of this product is subject to the terms and conditions of  
the BEI Resources Material Transfer Agreement (MTA). The  
MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

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### References:

1. Scholz, C. F. P., and M. Kilian. "The Natural History of *Cutaneous Propionibacteria*, and Reclassification of Selected Species within the Genus *Propionibacterium* to the Proposed Novel Genera *Acidipropionibacterium* gen. nov., *Cutibacterium* gen. nov. and *Pseudopropionibacterium* gen. nov." *Int. J. Syst. Evol. Microbiol.* 66 (2016): 4422-4432. PubMed: 27488827.
2. [HMP 9601](#) (*Cutibacterium acnes*, strain HL030PA1)
3. Zaid, M., et al. "*Cutibacterium* (formerly *Propionibacterium*) *acnes* Clavicular Infection." *J. Bone Jt. Infect.* 4 (2019): 40-49. PubMed: 30755847.
4. Elston, M. J., et al. "*Cutibacterium acnes* (formerly *Propionibacterium acnes*) and Shoulder Surgery." *Hawaii J. Health Soc. Welf.* 78 (2019): 3-5. PubMed: 31773103.

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