Product Information Sheet for HM-522

Propionibacterium acnes, Strain HL053PA1

Catalog No. HM-522

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Propionibacteriaceae*, *Propionibacterium*
Species: *Propionibacterium acnes* (also referred to as *Cutibacterium acnes*[1])
Strain: HL053PA1
Original Source: *Propionibacterium acnes (P. acnes)*, strain HL053PA1 was isolated from human skin.[2]
Comments: *P. acnes*, strain HL053PA1 (HMP ID 9564) 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. acnes*, strain HL053PA1 was sequenced at Washington University (GenBank: ADZD00000000).
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. acnes is a non-motile, Gram-positive, anaerobic rod that resides in hair follicles of the human skin.[3] Some strains are aerotolerant, but typically grow better under anaerobic conditions. The causative agent of acne, *P. acnes,* usually has a low level of virulence.[4,5] However, it may cause severe infections at various body sites, particularly in the presence of a foreign body.[6]

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-522 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 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 acnes*, Strain HL053PA1, HM-522."

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/bmbl5/index.htm.

Disclaimers:
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References:

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2. HMP ID 9564 (*Propionibacterium acnes*, strain HL053PA1)
3. Perry, A. L. and P. A. Lambert. "*Propionibacterium acnes*." Lett. Appl. Microbiol. 42 (2006): 185-188. PubMed: 16478502.
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