

**Dermabacter sp., Strain HFH0086**

**Catalog No. HM-857**

**For research use only. Not for human use.**

**Contributor:**

Thomas M. Schmidt, Professor, Department of Microbiology and Molecular Genetics, Michigan State University, East Lansing, Michigan, USA

**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Dermabacteriaceae*, *Dermabacter*

Species: *Dermabacter* sp.

Strain: HFH0086

Original Source: *Dermabacter* sp., strain HFH0086 was isolated from human feces.<sup>1</sup>

Comments: *Dermabacter* sp., strain HFH0086 ([HMP ID 1484](#)) 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 *Dermabacter* sp., strain HFH0086 has been sequenced at the [Broad Institute](#) (GenBank: [ATFO00000000](#)).

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.

*Dermabacter* species are Gram-positive, non-motile, non-spore forming, rod-shaped facultative anaerobes.<sup>2,3</sup> Based on 16S ribosomal gene sequence, it was determined that CDC formative coryneform groups 3 and 5 belong to this genus.<sup>4,5</sup> *Dermabacter* species are common colonizers of healthy human skin. They are also opportunistic pathogen and have been isolated from a variety of clinical samples, including blood cultures, abscesses, wounds and vaginal secretions.<sup>3-8</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Dermabacter broth supplemented with 10% glycerol. Please see Appendix I for media formulation.

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

**Packaging/Storage:**

HM-857 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:

Dermabacter broth or equivalent

Dermabacter agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 30°C

Atmosphere: Aerobic (with or without 5% CO<sub>2</sub>) or 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 30°C for 1 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: *Dermabacter* sp., Strain HFH0086, HM-857."

**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](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).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**References:**

1. Schmidt, T. M., Personal Communication.
2. Jones, D. and M. D. Collins. "Taxonomic Studies on Some Human Cutaneous Coryneform Bacteria: Description of *Dermabacter hominis* gen. nov., sp. nov." FEMS Microbiol. Lett. 51 (1988): 51-56.
3. Funke, G., et al. "Clinical Microbiology of Coryneform Bacteria." Clin. Microbiol. Rev. 10 (1997): 125-159. PubMed: 8993861.
4. Funke, G., et al. "Characteristics of CDC Group 3 and Group 5 Coryneform Bacteria Isolated from Clinical Specimens and Assignment to the Genus *Dermabacter*." J. Clin. Microbiol. 32 (1994): 1223-1228. PubMed: 8051248.
5. Gruner, E., et al. "Recognition of *Dermabacter hominis*, Formerly CDC Fermentative Coryneform Group 3 and Group 5, as a Potential Human Pathogen." J. Clin. Microbiol. 32 (1994): 1918-1922. PubMed: 7989543.
6. Park, Y. K., et al. "*Dermabacter jinjuensis* sp. nov., a Novel Species of the Genus *Dermabacter* Isolated from a Clinical

Specimen." Int. J. Syst. Evol. Microbiol. 66 (2016): 2573-2577. PubMed: 27088668.

7. Lo, C. I., et al. "High-Quality Genome Sequencing and Description of *Dermabacter indicis* sp. nov." New Microbes New Infect. 11 (2016): 59-67. Pubmed: 27081494.
8. Chang, D. H., M. S. Rhee and B. C. Kim. "*Dermabacter vaginalis* sp. nov., Isolated from Human Vaginal Fluid." Int. J. Syst. Evol. Microbiol. 66 (2016): 1881-1886. PubMed: 26867728.

ATCC® is a trademark of the American Type Culture Collection.



**APPENDIX I: ATCC® Medium 1735 Dermabacter medium**

- Tryptone.....10.0 g
- Yeast extract.....5.0 g
- Glucose.....5.0 g
- NaCl.....5.0 g
- Distilled water.....1.0 L

Adjust pH to 7.4. Autoclave at 121°C for 15 minutes.