

Corynebacterium sp., Strain HFH0082

Catalog No. HM-784

For research use only. Not for use in humans.

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: *Corynebacteriaceae*, *Corynebacterium*

Species: *Corynebacterium* sp.

Strain: HFH0082

Original Source: *Corynebacterium* sp., strain HFH0082 was isolated from human feces.^{1,2}

Comments: *Corynebacterium* sp., strain HFH0082 ([HMP ID 1206](#)) 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 *Corynebacterium* sp., strain HFH0082 was sequenced at the [Broad Institute](#) (GenBank: [AGEM00000000](#)).

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.

Corynebacterium species are typically non-motile, non-sporulating, Gram-positive, aerobic or facultatively anaerobic, rod-shaped bacteria that occur throughout nature in soil, water, plants, food products, and even in the mucosa and normal skin flora of humans and animals. Some species are known for their pathogenic effects on plants, animals, and humans, especially in immunocompromised hosts.^{3,4}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-784 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:

Brain Heart Infusion broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic or aerobic with 5% CO₂

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 1 to 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: *Corynebacterium* sp., Strain HFH0082, HM-784."

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

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References:

1. Schmidt, T. M., Personal Communication.
2. [HMP ID 1206](#) (*Corynebacterium* sp., strain HFH0082)
3. Janda, W. M. "Corynebacterium Species and the Coryneform Bacteria, Part I: New and Emerging Species in the Genus *Corynebacterium*." Clin. Microbiol. Newsl. 20 (1998): 41-52.
4. Pascual, C., et al. "Phylogenetic Analysis of the Genus *Corynebacterium* Based on 16S rRNA Gene Sequences." Int. J. Syst. Bacteriol. 45 (1995): 724-728. PubMed: 7547291.

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