Product Information Sheet for HM-1295

Corynebacterium sp., Strain CMW7794

Catalog No. HM-1295

For research use only. Not for use in humans.

Contributor:
Amanda Lewis, Ph.D., Assistant Professor, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Corynebacteriaceae*, *Corynebacterium*
Species: *Corynebacterium* sp.
Strain: CMW7794
Original Source: *Corynebacterium* sp., strain CMW7794 is a vaginal isolate obtained in August 2014 from a pregnant woman with bacterial vaginosis in St. Louis, Missouri, USA.[1,2]
Comments: *Corynebacterium* sp., strain CMW7794 (HMP ID 3227) 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 CMW7794 was sequenced at the Genome Institute at Washington University (GenBank: LSRB00000000).
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 in plants, animals and humans, especially in immunocompromised hosts.[3]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Lactobacilli MRS broth supplemented with 10% glycerol.

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

Packaging/Storage:
HM-1295 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:
Lactobacilli MRS broth or Brain Heart Infusion broth or equivalent
Lactobacilli MRS agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent
Incubation:
Temperature: 37°C
Atmosphere: Aerobic with or without 5% CO_2
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 CMW7794, HM-1295."

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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

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References:

1. Lewis, A. L., Personal Communication.
2. HMP ID 3227 (*Corynebacterium* sp., strain CMW7794)
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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www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898