

Product Information Sheet for HM-477

***Cardiobacterium valvarum*, Strain F0432**

Catalog No. HM-477

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Cardiobacteriaceae*, *Cardiobacterium*

Species: *Cardiobacterium valvarum*

Strain: F0432

Original Source: *Cardiobacterium valvarum* (*C. valvarum*), strain F0432 was isolated in 2008 from molar tooth dental plaque of a caries-free, 3-year-old male patient in the United States.^{1,2}

Comments: *C. valvarum*, strain F0432 ([HMP ID 9080](#)) 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. valvarum*, strain F0432 was sequenced at the Genome Institute at [Washington University](#) (GenBank: [AGCM00000000](#)).

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. valvarum is typically a Gram-negative, fastidious, facultatively anaerobic, non-motile, rod-shaped bacterium found in the flora of the human mouth. Like *Cardiobacterium hominis*, *C. valvarum* is a rare cause of infective Endocarditis.³⁻⁵

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Brain Heart Infusion broth supplemented with 5% dimethylsulfoxide (DMSO).

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

Packaging/Storage:

HM-477 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 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 24 to 48 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Cardiobacterium valvarum*, Strain F0432, HM-477."

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.

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References:

1. J. Izard, Personal Communication.
2. [HMP ID 9080](#) (*C. valvarum*, strain F0432)
3. Han, X. Y., et al. "Endocarditis with Ruptured Cerebral Aneurysm Caused by *Cardiobacterium valvarum* sp. nov." *J. Clin. Microbiol.* 42 (2004): 1590-1595. PubMed: 15071009.
4. Han, X. Y. and E. Falsen E. "Characterization of Oral Strains of *Cardiobacterium valvarum* and Emended Description of the Organism." *J. Clin. Microbiol.* 43 (2005): 2370-2374. PubMed: 15872268.
5. Chen, M., et al. "*Cardiobacterium valvarum* Infective Endocarditis and Phenotypic/Molecular Characterization of 11 *Cardiobacterium* Species Strains." *J. Med. Microbiol.* 60 (2011): 522-528. PubMed: 21163827.

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