

***Actinomyces cardiffensis*, Strain F0333**

**Catalog No. HM-147**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Actinomycetaceae, Actinomyces*

Species: *Actinomyces cardiffensis*

Strain: F0333

Original Source: *Actinomyces cardiffensis* (*A. cardiffensis*), strain F0333 is a human oral isolate.<sup>1</sup>

Comments: *A. cardiffensis*, strain F0333 ([HMP ID 9004](#)) 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 *A. cardiffensis*, strain F0333 is currently being sequenced at the Human Genome Sequencing Center at the [Baylor College of Medicine](#).

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.

*A. cardiffensis* is a Gram-positive, facultatively anaerobic, nonmotile, rod-shaped bacterium isolated from human clinical sources, including pleural fluid, brain, jaw, pericolic and ear abscesses, the antrum, and intrauterine contraceptive devices.<sup>2</sup> Although little is known about its pathogenic potential, there are rare cases which demonstrate the potential for *A. cardiffensis* to cause invasive disease.<sup>3</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Actinomyces Broth supplemented with 10% glycerol.

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

**Packaging/Storage:**

HM-147 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:

Actinomyces Broth ([ATCC medium 7](#)) or equivalent Tryptic Soy Agar with 5% defibrinated sheep blood or

equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>)

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 72 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Actinomyces cardiffensis*, Strain F0333, HM-147."

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. [HMP ID 9004](#) (*Actinomyces cardiffensis*, strain F0333)
2. Hall, V., et al. "*Actinomyces cardiffensis* sp. nov. from Human Clinical Sources." *J. Clin. Microbiol.* 40 (2002): 3427-3431. PubMed: 12202588.
3. Seo, J. Y., J.-S. Yeom and K. S. Ko. "*Actinomyces cardiffensis* Septicemia: a Case Report." *Diagn. Microbiol. Infect. Dis.* 73 (2012): 86-88. PubMed: 22445645.
4. Hall, V. "Actinomyces—Gathering Evidence of Human Colonization and Infection." *Anaerobe* 14 (2008): 1-7. PubMed: 18222714.

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