

***Actinomyces gerencseriae*, Strain F0344**

Catalog No. HM-97

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Actinomycetaceae*, *Actinomyces*

Species: *Actinomyces gerencseriae*

Strain: F0344

Original Source: *Actinomyces gerencseriae* (*A. gerencseriae*), strain F0344 was isolated from a human oral cavity.¹

Comments: *A. gerencseriae*, strain F0344 ([HMP ID 1036](#)) 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. gerencseriae*, strain F0344 is currently being sequenced at the [J. Craig Venter Institute](#).

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. gerencseriae is a Gram-positive, anaerobic, rod-shaped bacterium commonly isolated from the human mouth², particularly related to periodontal disease.³ Although it appears to be of low virulence, there are rare cases which demonstrate the potential for *A. gerencseriae* to cause serious infection.⁴

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-97 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% N₂:10% CO₂:10% H₂)

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 48 to 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 gerencseriae*, Strain F0344, HM-97."

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 <http://www.cdc.gov/biosafety/publications/bmb15/index.htm>.

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References:

1. [HMP ID 1036](#) (*Actinomyces gerencseriae*, strain F0344)
2. Johnson, J., et al. "*Actinomyces georgiae* sp. nov., *Actinomyces gerencseriae* sp. nov., Designation of Two Genospecies of *Actinomyces naeslundii*, and Inclusion of *A. naeslundii* Serotypes II and III and *Actinomyces viscosus* Serotype II in *A. naeslundii* Genospecies 2." Int. J. Syst. Bacteriol. 40 (1990): 273-286. PubMed: 2397195.
3. Becker, M. R., et al. "Molecular Analysis of Bacterial Species Associated with Childhood Caries." J. Clin. Microbiol. 40 (2002): 1001-1009. PubMed: 11880430.
4. Pulverer, G., H. Schütt-Gerowitt and K. P. Schaal. "Human Cervicofacial Actinomycoses: Microbiological Data for 1997 Cases." Clin. Infect. Dis. 37 (2003): 490-497. PubMed: 12905132.
5. Smith, A. J., et al. "Antimicrobial Susceptibility Testing of *Actinomyces* Species with 12 Antimicrobial Agents." J. Antimicrob. Chemother. 56 (2005): 407-409. PubMed: 15972310.
6. Dewhirst, F. E., et al. "The Human Oral Microbiome." J. Bacteriol. 192 (2010): 5002-5017. PubMed: 20656903.

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