

Product Information Sheet for HM-1089

Actinomyces urogenitalis, Strain S6-C4

Catalog No. HM-1089

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Actinomycetaceae*, *Actinomyces*

Species: *Actinomyces urogenitalis*

Strain: S6-C4

Original Source: *Actinomyces urogenitalis* (*A. urogenitalis*), strain S6-C4 is a vaginal isolate obtained in 2012 from a woman with bacterial vaginosis in Seattle, Washington, USA.^{1,2}

Comments: *A. urogenitalis*, strain S6-C4 ([HMP ID 1626](#)) 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. urogenitalis*, strain S6-C4 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [JRM01000000](#)).

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. urogenitalis is a Gram-positive, facultatively anaerobic, rod-shaped bacterium that is thought to be a part of the normal microflora of the human vagina.³ Disruption of the mucosal barrier by foreign bodies or devices can cause actinomycosis.⁴ *A. urogenitalis* has been identified as one of the causative agents of actinomycosis after some gynecological procedures.⁵⁻⁶

Material Provided:

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

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

Packaging/Storage:

HM-1089 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 medium or Tryptic Soy Yeast Extract medium or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

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 2 to 5 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Actinomyces urogenitalis*, Strain S6-C4, HM-1089."

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. Sizova, M. V., Personal Communication.
2. [HMP ID 1626](#) (*A. urogenitalis*, strain S6-C4)
3. Nikolaitchouk, N., et al. "Characterization of *Actinomyces* Isolates from Samples from the Human Urogenital Tract: Description of *Actinomyces urogenitalis* sp. nov." *Int. J. Syst. Evol. Microbiol.* 50 (2000): 1649-1654. PubMed: 10939672.
4. Kononen, E. and W. G. Wade. "*Actinomyces* and Related Organisms in Human Infections." *Clin. Microbiol. Rev.* 28 (2015): 419-442. PubMed: 25788515.
5. Elsayed, S., A. George and K. Zhang. "Intrauterine Contraceptive Device-Associated Pelvic Actinomycosis Caused by *Actinomyces urogenitalis*." *Anaerobe* 12 (2006): 67-70. PubMed: 16701616.
6. Van Hoecke, F., et al. "*Actinomyces urogenitalis* Bacteremia and Tubo-Ovarian Abscess after an *In Vitro* Fertilization (IVF) Procedure." *J. Clin. Microbiol.* 51 (2013): 4252-4254. PubMed: 24025912.

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