Product Information Sheet for HM-814

Actinomyces massiliensis, Strain F0489

Catalog No. HM-814

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Actinomycetaceae*, *Actinomyces*
Species: *Actinomyces massiliensis*
Strain: F0489
Original Source: *Actinomyces massiliensis* (*A. massiliensis*), strain F0489 was isolated in June 2008 from dental plaque of a 5-year-old female patient with caries in the United States.[1]
Comments: *A. massiliensis*, strain F0489 (HMP ID 1318) 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. massiliensis*, strain F0489 was sequenced by the J. Craig Venter Institute (GenBank: AKFT00000000).
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. massiliensis is a Gram-positive, anaerobic, rod-shaped bacteria.[2] Present from infancy to adulthood, *Actinomyces* species are the primary colonizers which initiate plaque formation and provide a platform for the adherence of other plaque bacteria, inviting infectious disease development.[3] The complete genome of *A. massiliensis*, strain 4401292, a human blood culture isolate from a patient with pleuropneumonia, has also been sequenced (GenBank: AKIO00000000).[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-814 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 or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or equivalent
Incubation:
Temperature: 37°C
Atmosphere: Anaerobic (80% N_2:20% 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 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: *Actinomyces massiliensis*, Strain F0489, HM-814."

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.

Disclaimers:
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References:

1. J. Izard, Personal Communication.
2. Renvoise, A., D. Raoult and V. Roux. "*Actinomyces massiliensis* sp. nov., Isolated from a Patient Blood Culture." Int. J. Syst. Evol. Microbiol. 59 (2009): 540-544. PubMed: 19244437.
3. Yeung, M. K. "Molecular and Genetic Analyses of *Actinomyces* spp." Crit. Rev. Oral Biol. Med. 10 (1999): 120-138. PubMed: 10759417.
4. Roux, V., et al. "Draft Genome Sequence of *Actinomyces massiliensis* Strain 4401292T." J. Bacteriol. 194 (2012): 5121. PubMed: 22933754.
5. HMP ID 1318 (*Actinomyces massiliensis*, strain F0489)

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