

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-146

Actinomyces sp., Oral Taxon 178, Strain F0338

Catalog No. HM-146

For research use only. Not for human use.

Contributor:

Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Actinomycetaceae, Actinomyces

<u>Species</u>: *Actinomyces* sp. <u>Subtaxon</u>: Oral Taxon 178

Strain: F0338

Original Source: Actinomyces sp., Oral Taxon 178, strain

F0338 was isolated from a human oral cavity. 1

Comments: Actinomyces sp., Oral Taxon 178, strain F0338 (HMP ID 9005) 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 Actinomyces sp. Oral Taxon 178 strain F0338 is currently being sequenced by the Human Genome Sequencing Center at the Baylor College of Medicine (GenBank: AEUH000000000).

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.

Actinomyces species are Gram-positive, facultatively anaerobic, rod-shaped bacteria found as predominate flora of the normal human oral cavity. 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.²⁻⁴

Material Provided:

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

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

Packaging/Storage:

HM-146 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. Freezethaw 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 gas mixture (80% N₂:10% CO₂:10%

 H_2)

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 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* sp., Oral Taxon 178, Strain F0338, HM-146."

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/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-146

Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, noncommercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- 1. <u>HMP 9005</u> (*Actinomyces* sp., Oral Taxon 178, strain F0338)
- Yeung, M. K. "Molecular and Genetic Analyses of Actinomyces spp." Crit. Rev. Oral Biol. Med. 10 (1999): 120-138. PubMed: 10759417.
- Paster, B. J., et al. "Bacterial Diversity in Human Subgingival Plaque." <u>J. Bacteriol.</u> 183 (2001): 3770-3783. PubMed: 11371542.
- Dewhirst, F. E., et al. "The Human Oral Microbiome." <u>J. Bacteriol.</u> 192 (2010): 5002-5017. PubMed: 20656903.

ATCC[®] is a trademark of the American Type Culture Collection.

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

HM-146_26JAN2012