

Product Information Sheet for HM-98

Actinomyces israelii, Strain F0345

Catalog No. HM-98

For research use only. Not for use in humans.

Contributors:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Actinomycetaceae, Actinomyces

Species: Actinomyces israelii

Strain: F0345

Original Source: Actinomyces israelii (A. israelii), strain F0345

was isolated from a human oral cavity.1

Comments: A. israelii, strain F0345 (HMP ID 1037) 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. israelii, strain F0345 is currently being sequenced at the J. Craig Venter Institute.

HMP material is taxonomically classified by the Quality control of these materials is only depositor. performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

A. israelii is a Gram-positive, facultatively anaerobic, rodshaped bacterium commonly found in the normal human mouth, gastrointestinal tract and female genital tract. 2,3,4 Although it appears to be of low virulence, there are rare cases which demonstrate the potential for A. israelii to cause the chronic disease actinomycosis, as well as brain abscess.^{2,5}

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-98 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

Propagation:

- Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tube, slant and/or plate at 37°C for 3 to 4 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 israelii, Strain F0345, HM-98."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

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- 1. HMP ID 1037 (Actinomyces israelii, strain F0345)
- Boyanova, L., et al. "Actinomycosis: A Frequently Forgotten Disease." <u>Future Microbiol.</u> 10 (2015): 613-612. PubMed: 25865197.
- Evans, D. T. "Actinomyces israelii in the Female Genital Tract: A Review." Genitourin. Med. 69 (1993): 54-59. PubMed: 8444484.
- Dewhirst, F. E., et al. "The Human Oral Microbiome."
 <u>J. Bacteriol.</u> 192 (2010): 5002-5017. PubMed: 20656903.
- Perez, A., et al. "Actinomyces Causing a Brain Abscess." <u>Proc. (Bayl. Univ. Med. Cent.)</u> 34 (2021): 698-700. PubMed: 34732992.

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