

Actinomyces sp., Oral Taxon 849, Strain F0330

Catalog No. HM-148

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Actinomycetaceae, Actinomyces

Species: Actinomyces sp.

Subtaxon: Oral Taxon 849

Strain: F0330

Original Source: Actinomyces sp., Oral Taxon 849, strain F0330 was isolated from a human oral cavity.¹

Comments: Actinomyces sp., Oral Taxon 849, strain F0330 (HMP ID 975) 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 849, strain F0330 was sequenced at the Broad Institute (GenBank: ACTB00000000).

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 Actinomyces broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-148 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:

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 1 to 7 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 sp., Oral Taxon 849, Strain F0330, HM-148."

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/bmb15/index.htm.

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References:

1. [HMP_975](#) (*Actinomyces* sp., Oral Taxon 849, strain F0330)
2. Yeung, M. K. "Molecular and Genetic Analyses of *Actinomyces* spp." *Crit. Rev. Oral Biol. Med.* 10 (1999): 120-138. PubMed: 10759417.
3. Paster, B. J., et al. "Bacterial Diversity in Human Subgingival Plaque." *J. Bacteriol.* 183 (2001): 3770-3783. PubMed: 11371542.
4. Dewhirst, F. E., et al. "The Human Oral Microbiome." *J. Bacteriol.* 192 (2010): 5002-5017. PubMed: 20656903.

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