

# Product Information Sheet for HM-90

## ***Actinomyces* sp., Oral Taxon 848, Strain F0332**

### **Catalog No. HM-90**

### **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 848

Strain: F0332

Original Source: *Actinomyces* sp., Oral Taxon 848, strain F0332 was isolated in June 1983 from the subgingival plaque of a 51-year-old, white male patient with moderate periodontitis in the United States.<sup>1,2</sup>

Comments: *Actinomyces* sp., Oral Taxon 848, strain F0332 (HMP ID 0972) 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 848, strain F0332 was sequenced by the Genome Institute at [Washington University](#) (GenBank: [ACUY000000000](#)).

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.<sup>3</sup>

#### **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-90 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 ([ATCC medium 7](#)) or equivalent  
Tryptic Soy Agar with 5% defibrinated sheep blood or equivalent

##### Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>)

##### 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 48 to 120 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 848, Strain F0332, HM-90."

#### **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. Jacques Izard, personal communication
2. [HMP ID 0972](#) (*Actinomyces* sp., Oral Taxon 848, strain F0332)
3. Yeung, M. K. "Molecular and Genetic Analyses of *Actinomyces* spp." *Crit. Rev. Oral Biol. Med.* 10 (1999): 120-138. PubMed: 10759417.

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