

## Actinomyces graevenitzii, Strain C83

### Catalog No. HM-236

**For research use only. Not for use in humans.**

#### Contributor:

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#### Manufacturer:

BEI Resources

#### Product Description:

Bacteria Classification: Actinomycetaceae, Actinomyces

Species: Actinomyces graevenitzii

Strain: C83

Original Source: Actinomyces graevenitzii (A. graevenitzii), strain C83 was isolated in February 2006 from expectorated sputum from a 31-year-old male patient with cystic fibrosis.<sup>1,2</sup>

Comments: A. graevenitzii, strain C83 (HMP ID 0045) 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. graevenitzii, strain C83 was sequenced at the Broad Institute (GenBank: ACRN000000000).

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. graevenitzii is a Gram-positive, facultatively anaerobic, rod-shaped bacterium isolated almost exclusively from oral and respiratory sites.<sup>3</sup> Although little is known about its pathogenic potential, there are rare cases which demonstrate the potential for A. graevenitzii to cause invasive disease.<sup>4,5</sup>

#### 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-236 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: Aerobic with 5% CO<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 1 to 2 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 graevenitzii, Strain C83, HM-236."

#### 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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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#### References:

1. Surette, M.G., Personal Communication.
2. [HMP ID 0045](#) (*Actinomyces graevenitzii*, strain C83)
3. Ramos, C. P., et al. "*Actinomyces graevenitzii* sp. nov., Isolated from Human Clinical Specimens." *Int. J. Syst. Bacteriol.* 47 (1997): 885-888. PubMed: 9226924.
4. Hwang, S. S., et al. "*Actinomyces graevenitzii* Bacteremia in a Patient with Alcoholic Liver Cirrhosis." *Anaerobe* 17 (2011): 87-89. PubMed: 21421069.
5. Hall, V. "Actinomyces—Gathering Evidence of Human Colonization and Infection." *Anaerobe* 14 (2008): 1-7. PubMed: 18222714.
6. Smith, A. J., et al. "Antimicrobial Susceptibility Testing of *Actinomyces* Species with 12 Antimicrobial Agents." *J. Antimicrob. Chemother.* 56 (2005): 407-409. PubMed: 15972310.

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