

***Corynebacterium amycolatum*, Strain SK46**

Catalog No. HM-109

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Corynebacteriaceae*,
Corynebacterium

Species: *Corynebacterium amycolatum*

Strain: SK46

Original Source: *Corynebacterium amycolatum* (*C. amycolatum*), strain SK46 was isolated from the right arm normal skin of a 57-year-old man.^{1,2}

Comments: *C. amycolatum*, strain SK46 ([HMP ID 0282](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The whole genome of *C. amycolatum*, strain SK46 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [ABZU00000000](#)).

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.

C. amycolatum, a normal inhabitant of human skin, is a non-motile, non-sporulating, Gram-positive bacillus.³ It is capable of causing serious nosocomial infections in association with intravascular devices or immunosuppressed patients.^{4,5}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-109 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:

Brain Heart Infusion broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

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 day.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Corynebacterium amycolatum*, Strain SK46, HM-109.”

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:

1. Perez-Perez, G. I., Personal Communication.
2. [HMP 0282](#) (*C. amycolatum*, strain SK46)
3. Collins, M. D., R. A. Burton and D. Jones. "Corynebacterium amycolatum sp. nov., a New Mycolic Acid-Less Corynebacterium Species from Human Skin." *FEMS Microbiol. Lett.* 49 (1988): 349-352.
4. Dalal, A., C. Urban and S. Segal-Maurer. "Endocarditis Due to *Corynebacterium amycolatum*." *J. Med. Microbiol.* 57 (2008): 1299-1302. PubMed: 18809563.
5. Knox, K. L. and A. H. Holmes. "Nosocomial Endocarditis Caused by *Corynebacterium amycolatum* and Other Nondiphtheriae Corynebacteria." *Emerg. Infect. Dis.* 8 (2002): 97-99. PubMed: 11749760.

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