

***Micrococcus luteus*, Strain SK58**

Catalog No. HM-114

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Micrococcaceae*, *Micrococcus*

Species: *Micrococcus luteus*

Strain: SK58

Original Source: *Micrococcus luteus* (*M. luteus*), strain SK58 was isolated from normal skin of the left arm of a 57-year-old man.^{1,2}

Comments: *M. luteus*, strain SK58 ([HMP ID 0569](#)) 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 *M. luteus*, strain SK58 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [ADCD00000000](#)).

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.

M. luteus, an aerobic, non-motile, Gram-positive coccus typically occurring in tetrads, is a constituent of normal human skin and oral bacterial flora.³ Although of low virulence, it may become pathogenic in immunocompromised patients, colonizing the surface of heart valves.⁴

Material Provided:

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

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

Packaging/Storage:

HM-114 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:

Nutrient broth or equivalent
Nutrient agar or equivalent

Incubation:

Temperature: 26°C or 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 26°C or 37°C for 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: *Micrococcus luteus*, Strain SK58, HM-114.”

Biosafety Level: 1

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 ID 0569](#) (*M. luteus*, strain SK58)
3. Wieser, M., et al. "Emended Descriptions of the Genus *Micrococcus*, *Micrococcus luteus* (Cohn 1872) and *Micrococcus lylae* (Kloos et al. 1974)." *Int. J. Syst. Evol. Microbiol.* 52 (2002): 629-637. PubMed: 11931177.
4. Rodriguez-Nava, G., et al. "Advances in Medicine and Positive Natural Selection: Prosthetic Valve Endocarditis Due to Biofilm Producer *Micrococcus luteus*." *IDCases* 20 (2020): e00743. PubMed: 32195120.

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