

***Rhodococcus erythropolis*, Strain SK121**

Catalog No. HM-116

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Nocardiaceae*, *Rhodococcus*

Species: *Rhodococcus erythropolis*

Strain: SK121

Original Source: *Rhodococcus erythropolis* (*R. erythropolis*), strain SK121 was isolated from normal skin of the left arm of a 47-year-old woman.^{1,2}

Comments: *R. erythropolis*, strain SK121 ([HMP ID 0726](#)) 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 *R. erythropolis*, strain SK121 has been sequenced at the [J. Craig Venter Institute](#) (GenBank: [ACNO00000000](#)).

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.

R. erythropolis is a non-motile, Gram-positive, aerobic, filamentous rod commonly found in soil.³ As a result of the many metabolic enzymes they possess, *R. erythropolis* strains have been widely used in bioremediation and biocatalytic applications.⁴ *R. erythropolis* is not known clinically as a pathogen, but rare infections in immunocompromised patients have been reported.⁴

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-116 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

Brain Heart Infusion agar or equivalent

Incubation:

Temperature: 30°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 30°C for 2 to 3 days.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Rhodococcus erythropolis*, Strain SK121, HM-116.”

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 0726](#) (*Rhodococcus erythropolis*, Strain SK121).
3. Goodfellow, M. and G. Alderson. "The Actinomycete-genus *Rhodococcus*: A Home for the 'rhodochrous' Complex." *J. Gen. Microbiol.* 100 (1977): 99-122. PubMed: 874450.
4. de Carvalho, C. C. and M. M. da Fonseca. "The Remarkable *Rhodococcus erythropolis*." *Appl. Microbiol. Biotechnol.* 67 (2005): 715-726. PubMed: 15711940.

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