

***Streptomyces* sp., Strain HPH0547**

Catalog No. HM-859

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Streptomycetaceae*, *Streptomyces*

Species: *Streptomyces* sp.

Strain: HPH0547

Original Source: *Streptomyces* sp., strain HPH0547 was isolated from a biopsy of ileo-anal pouch mucosa of a human subject in the United States.¹

Comments: *Streptomyces* sp., strain HPH0547 ([HMP ID 1486](#)) 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 *Streptomyces* sp., strain HPH0547 has been sequenced at the [Broad Institute](#) (GenBank: [ATCE00000000](#)).

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.

Streptomyces species are Gram-positive, aerobic, non-motile, spore forming, filamentous bacteria. *Streptomyces* has a distinct earthy odor and it is predominantly found in soil. *Streptomyces* has the ability to produce bioactive secondary metabolites and are the largest antibiotic producing genus.²

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in ISP 1 media supplemented with 10% glycerol. Please see Appendix I for media formulation.

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

Packaging/Storage:

HM-859 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:

ISP 1 media or equivalent

Yeast Malt Extract medium or equivalent

Incubation:

Temperature: 26°C

Atmosphere: Aerobic (with or without 5% CO₂)

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 for 5 to 7 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Streptomyces* sp., Strain HPH0547, HM-859."

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.

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References:

1. Schmidt, T. M., Personal Communication.
2. Procopio, R. E., et al. "Antibiotics Produced by Streptomyces." Braz. J. Infect. Dis. 16 (2012): 466-471. PubMed: 22975171.

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APPENDIX I: ATCC® Medium 1877 ISP Media 1

Tryptone.....5.0 g
 Yeast extract.....3.0 g
 Agar (if necessary)15.0 g
 Distilled water..... 1.0 L

Adjust pH to 7.0 – 7.2. Autoclave at 121°C for 15 minutes.