

Streptococcus salivarius*, Strain SK126*Catalog No. HM-121****For research use only. Not for human use.****Contributor:**

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Streptococcaceae*, *Streptococcus*

Species: *Streptococcus salivarius*

Strain: SK126

Serotype: 19A

Original Source: *Streptococcus salivarius* (*S. salivarius*), strain SK126 was isolated from normal skin of the right arm of a 47-year-old woman.^{1,2}

Comments: *S. salivarius*, strain SK126 ([HMP ID 845](#)) 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 *S. salivarius*, strain SK126 has been sequenced at the [J. Craig Venter Institute](#) (GenBank: [ACL00000000](#)).

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.

S. salivarius is a nonmotile, non-sporulating, Gram-positive coccus found in normal human oral microflora. It is one of the earliest colonizers of oral mucosal surfaces in infants (detectable a few hours after birth) and remains prevalent in the oropharyngeal tract throughout the human life span. *S. salivarius* is thought to contribute to oral health, showing an antagonistic effect against pathogens involved in tooth decay, periodontitis, and sore throat.³ In rare neurosurgical or anesthetic complications, *S. salivarius* is also known to cause pneumonia, meningitis and bacteremia.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-121 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% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic with 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 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: *Streptococcus salivarius*, Strain SK126, HM-121."

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/bmb15/index.htm.

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References:

1. Perez-Perez, G. I., personal communication.
2. [HMP ID 845](#) (*Streptococcus salivarius*, strain SK126)
3. Horz, H. P., et al. "Distribution and Persistence of Probiotic *Streptococcus salivarius* K12 in the Human Oral Cavity as Determined by Real-time Quantitative Polymerase Chain Reaction." *Oral Microbiol. Immunol.* 22 (2007): 126-130. PubMed: 17311636.
4. Wilson, M., et al. "Clinical and Laboratory Features of *Streptococcus salivarius* Meningitis: A Case Report and Literature Review." *Clin. Med. Res.* (2011): *in press*. PubMed: 21817122.

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