

Streptococcus mitis, Strain F0392

Catalog No. HM-262

For research use only. Not for use in humans.

Contributor:

Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Streptococcaceae, Streptococcus

Species: Streptococcus mitis

Biovar: 2

Strain: F0392

Serotype: 19A

Original Source: Streptococcus mitis (S. mitis), strain F0392 was isolated from a human oral cavity.¹

Comments: S. mitis, strain F0392 (HMP 9178) 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. mitis, strain F0392 was sequenced at the J. Craig Venter Institute (GenBank: AFU000000000).

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. mitis is a non-motile, α-hemolytic, Gram-positive coccus normally found in the human mouth and throat. It is not usually pathogenic but can be recovered from ulcerated teeth, sinuses and blood, as well as heart lesions from subacute endocarditis patients.²

Material Provided:

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

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

Packaging/Storage:

HM-262 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:

Tryptic Soy broth or Brain Heart Infusion broth or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic (with or without 5% CO₂) or anaerobic

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 to 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: Streptococcus mitis, Strain F0392, HM-262."

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 (BMBL), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. [HMP ID 9178](#) (*Streptococcus mitis*, strain F0392)
2. Coykendall, A. L. "Classification and Identification of the Viridans Streptococci." *Clin. Microbiol. Rev.* 2 (1989): 315-328. PubMed: 2670193.

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