Product Information Sheet for HM-1060

Streptococcus parasanguinis, Strain CC87K

Catalog No. HM-1060

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Streptococcaceae, Streptococcus*
Species: *Streptococcus parasanguinis*
Strain: CC87K
Original Source: *Streptococcus parasanguinis (S. parasanguinis*), strain CC87K was isolated in October 2010 from colonic biopsy tissue of a human subject in Victoria, British Columbia, Canada.[1,2]
Comments: *S. parasanguinis,* strain CC87K (HMP ID 1195) 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. parasanguinis*, strain CC87K was sequenced at the Broad Institute (GenBank: AZJD00000000).
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. parasanguinis is a Gram-positive bacterium and a primary colonizer of the human oral cavity and is involved in the development of dental plaque and infective endocarditis.[3,4,5] A few *Streptococcus* species are pathogenic and responsible for many cases of meningitis, bacterial pneumonia, endocarditis and necrotizing fasciitis.[6,7]

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-1060 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 5% CO_2 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 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: *Streptococcus parasanguinis,* Strain CC87K, HM-1060."

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.

Disclaimers:
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References:

1. Allen-Vercoe, E., Personal Communication.
2. HMP ID 1195 (*Streptococcus parasanguinis*, strain CC87K)
3. Garnett, J. A., et al. "Structural Insight Into the Role of *Streptococcus parasanguinis* Fap1 Within Oral Biofilm Formation." Biochem. Biophys. Res. Commun. 417 (2012): 421-426. PubMed: 22166217.
4. Corby, P. M., et al. "Microbial Risk Indicators of Early Childhood Caries." J. Microbiol. 43 (2005): 5753-5759. PubMed: 16272513.
5. Geng, J., et al. "Complete Genome and Transcriptomes of *Streptococcus parasanguinis* FW213: Phylogenic Relations and Potential Virulence Mechanisms." PLoS One 7 (2012): e34769. PubMed: 22529932.
6. Musser, J. M. and S. A. Shelburne III. "A Decade of Molecular Pathogenomic Analysis of Group A *Streptococcus*." J. Clin. Invest. 119 (2009): 2455-2463. PubMed: 19729843.
7. Nobbs, A. H., R. J. Lamont and H. F. Jenkinson. "*Streptococcus* Adherence and Colonization." Microbiol. Mol. Biol. Rev. 73 (2009): 407-450. PubMed: 19721085.

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