

Product Information Sheet for HM-275

Streptococcus sanguinis, Strain VMC66

Catalog No. HM-275

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 sanguinis

Strain: VMC66

Note: The strain designation, strain VCM66 on the vial label for lots 59265308, 70010075 and 70058043 is incorrect. The correct strain designation is VMC66.

Original Source: Streptococcus sanguinis (S. sanguinis), strain VMC66 was isolated from a patient with a subacute case of bacterial endocarditis.¹

<u>Comments</u>: S. sanguinis, strain VMC66 (<u>HMP ID 9398</u>) is a reference genome for <u>The Human Microbiome Project</u> (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of S. sanguinis, strain VMC66 was sequenced by the Human Genome Sequencing Center at <u>Baylor College of Medicine</u> (GenBank: <u>AEVH000000000</u>).

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. sanguinis is an indigenous, non-motile, Gram-positive coccus that colonizes the human oral cavity. It is particularly found in dental plaque, where it serves to tether other oral bacteria that contribute to the development of caries and periodontal disease. S. sanguinis may gain entrance into the bloodstream during dental cleanings and surgeries, where it can colonizes mitral and aortic heart valves leading to subacute bacterial endocarditis.²

Material Provided:

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

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

Packaging/Storage:

HM-275 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:

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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% CO₂

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth.
- 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 sanguinis, Strain VMC66, HM-275."

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. Kitten, T., Personal Communication.
- 2. HMP ID 9398 (Streptococcus sanguinis, strain VMC66)
- 3. Xu, P., et al. "Genome of the Opportunistic Pathogen *Streptococcus sanguinis*." <u>J. Bacteriol.</u> 189 (2007): 3166-3175. PubMed: 17277061.

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