

***Gemella sanguinis*, Strain M325****Catalog No. HM-241****For research use only. Not for human use.****Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

**Bacteria Classification:** *Bacillales Family XI. Incertae Sedis, Gemella*

**Species:** *Gemella sanguinis*

**Strain:** M325

**Original Source:** *Gemella sanguinis* (*G. sanguinis*), strain M325 was isolated from expectorated sputum from a 26-year-old female patient with cystic fibrosis.<sup>1,2</sup>

**Comments:** *G. sanguinis*, strain M325 ([HMP ID 0433](#)) 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 *G. sanguinis*, strain M325 is currently being sequenced at the [Broad Institute](#) (GenBank: [ACRY00000000](#)).

*G. sanguinis* is a facultatively anaerobic, Gram-positive, mesophilic coccus commonly found in the mucous membranes of humans and some animals.<sup>3,4</sup> However, it is recognized as an opportunistic pathogen and has occasionally been isolated from patients with systemic infections.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-241 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% CO<sub>2</sub>

**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 48 to 72 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Gemella sanguinis*, Strain M325, HM-241."

**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 <http://www.cdc.gov/biosafety/publications/bmb15/index.htm>.

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**References:**

1. Professor M. G. Surette, personal communication.
2. [HMP 433](#) (*Gemella sanguinis*, strain M325)
3. Collins, M. D., et al. "Description of *Gemella sanguinis* sp. nov., Isolated from Human Clinical Specimens." *J. Clin. Microbiol.* 36 (1998): 3090-3093. PubMed: 9738079.
4. [Bergey's Manual of Systematic Bacteriology, Vol. 3](#)

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