

***Gemella morbillorum*, Strain M424**

**Catalog No. HM-240**

**For research use only. Not for use in humans.**

**Contributor:**

Michael G. Surette, Professor, Department of Microbiology and Infectious Diseases, University of Calgary, Alberta, Canada

**Manufacturer:**

BEI Resources

**Product Description:**

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

Species: *Gemella morbillorum*

Strain: M424

Original Source: *Gemella morbillorum* (*G. morbillorum*), strain M424 was isolated from expectorated sputum from a 27-year-old male patient with cystic fibrosis in January 2008.<sup>1,2</sup>

Comments: *G. morbillorum*, strain M424 ([HMP ID 0432](#)) 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. morbillorum*, strain M424 was sequenced at the [Broad Institute](#) (GenBank: [ACRX00000000](#)).

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.

*G. morbillorum* is a facultatively anaerobic, Gram-positive, mesophilic coccus commonly found in the mucous membranes of humans and some animals.<sup>3,4,5</sup> However, it is recognized as an opportunistic pathogen and has been increasingly identified in infective endocarditis.<sup>6,7</sup>

**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-240 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 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: *Gemella morbillorum*, Strain M424, HM-240."

**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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Surette, M. G., Personal Communication.
2. [HMP ID 0432](#) (*Gemella morbillorum*, Strain M424)
3. Kilpper-Bälz, R. and K. H. Schleifer. "Transfer of *Streptococcus morbillorum* to the Genus *Gemella* as *Gemella morbillorum* comb. nov." Int. J. Syst. Bacteriol. 38 (1988): 442-443.
4. [Bergey's Manual of Systematic Bacteriology, Vol. 3](#)
5. Whitney, A. M. and S. P. O'Connor. "Phylogenetic Relationship of *Gemella morbillorum* to *Gemella haemolysans*." Int. J. Syst. Bacteriol. 43 (1993): 832-838. PubMed: 8240963.
6. La Scola, B. and D. Raoult. "Molecular Identification of *Gemella* Species from Three Patients with Endocarditis." J. Clin. Microbiol. 36 (1998): 866-871. PubMed: 9542900.
7. Desai, A. K. and E. M. Bonura. "Multi-Valvular Infective Endocarditis from *Gemella morbillorum*." BMJ Case Rep. 14 (2021): e242093. PubMed: 34301680.

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