

***Gardnerella vaginalis*, Strain CMW7778B**

**Catalog No. HM-1298**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Bifidobacteriaceae*, *Gardnerella*

Species: *Gardnerella vaginalis*

Strain: CMW7778B

Original Source: *Gardnerella vaginalis* (*G. vaginalis*), strain CMW7778B is a vaginal isolate obtained in June 2014 from a pregnant woman in Missouri, USA.<sup>1,2</sup>

Comments: *G. vaginalis*, strain CMW7778B ([HMP ID 3230](#)) 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. vaginalis*, strain CMW7778B was sequenced at [Washington University](#) (GenBank: [LSRC01000000](#)).

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. vaginalis* is a facultatively anaerobic bacterium commonly found in vaginal microbiota, however, some strains have been shown to be obligately anaerobic.<sup>3-5</sup> It is often described as Gram-variable but has a thin, Gram-positive cell wall.<sup>6</sup> Although *G. vaginalis* is commonly found in the vaginal microbiota of healthy individuals, it is one of the predominant organisms of the vaginal cavity in women with bacterial vaginosis.<sup>7,8</sup>

**Material Provided:**

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

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

**Packaging/Storage:**

HM-1298 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:

NYC III broth or equivalent

Chocolate GC agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

Note: This strain does not grow under aerobic conditions.

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: *Gardnerella vaginalis*, Strain CMW7778B, HM-1298."

**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 [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Lewis, A., Personal Communication.
2. [HMP ID 3230](#) (*Gardnerella vaginalis*, strain CMW7778B)
3. Greenwood, J. R. and M. J. Pickett. "Transfer of *Haemophilus vaginalis* Gardner and Dukes to a New Genus, *Gardnerella*: *G. vaginalis* (Gardner and Dukes) comb. nov." *Int. J. Syst. Bacteriol.* 30 (1980): 170-178.
4. Malone, B. H., et al. "Obligately Anaerobic Strains of *Corynebacterium vaginale* (*Haemophilus vaginalis*)." *J. Clin. Microbiol.* 2 (1975): 272-275. PubMed: 1080766.
5. Catlin, B. W. "*Gardnerella vaginalis*: Characteristics, Clinical Considerations and Controversies." *Clin. Microbiol. Rev.* 5 (1992): 213-237. PubMed: 1498765.
6. Harper, J. J. and G. H. G. Davis. "Cell Wall Analysis of *Gardnerella vaginalis* (*Haemophilus vaginalis*)." *Int. J. Syst. Bacteriol.* 32 (1982): 48-50.
7. Aroutcheva, A. A., et al. "*Gardnerella vaginalis* Isolated from Patients with Bacterial Vaginosis and from Patients with Healthy Vaginal Ecosystems." *Clin. Infect. Dis.* 33 (2001): 1022-1027. PubMed: 11528575.
8. Yeoman, C. J., et al. "Comparative Genomics of *Gardnerella vaginalis* Strains Reveals Substantial Differences in Metabolic and Virulence Potential." *PLoS One* 5 (2010): e12411. PubMed: 20865041.

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