

***Gardnerella vaginalis*, Strain JCP8017A**

Catalog No. HM-1110

For research use only. Not for human use.

Contributor:

Amanda Lewis, PhD, Assistant Professor of Molecular Microbiology, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Bifidobacteriaceae*, *Gardnerella*

Species: *Gardnerella vaginalis*

Strain: JCP8017A

Original Source: *Gardnerella vaginalis* (*G. vaginalis*), strain JCP8017A was isolated on March 23, 2011 from a clinical vaginal swab collected from a woman that tested positive for bacterial vaginosis (Nugent score = 8) at the Washington University School of Medicine in St. Louis, Missouri, USA.¹⁻³

Comments: *G. vaginalis*, strain JCP8017A ([HMP ID 1577](#)) 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 JCP8017A was sequenced at the Genome Institute at [Washington University](#) (GenBank: [ATJN00000000](#)).

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. It is often described as Gram-variable but has a thin, Gram-positive cell wall.⁴ Although *G. vaginalis* is commonly found in healthy individuals, it is one of the predominant organisms of the vaginal cavity in women with bacterial vaginosis.^{5,6}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-1110 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 agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic or aerobic with 5% CO₂

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 24 to 48 hours.

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 JCP8017A, HM-1110."

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.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. [HMP ID 1577](#) (*Gardnerella vaginalis*, strain JCP8017A)
2. A. Lewis, Personal Communication.
3. Lewis, W. G., et al. "Degradation, Foraging, and Depletion of Mucus Sialoglycans by the Vagina-adapted *Actinobacterium Gardnerella vaginalis*." J. Biol. Chem. 288 (2013): 12067-12079. PubMed: 23479734.
4. Harper, J. J. and G. H. G. Davis. "Cell Wall Analysis of *Gardnerella vaginalis* (*Haemophilus vaginalis*)." Int. J. Syst. Bacteriol. 32 (1982): 48-50.
5. 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.
6. 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.

ATCC® is a trademark of the American Type Culture Collection.

