

Lactobacillus jensenii, Strain JV-V16

Catalog No. HM-105

For research use only. Not for human use.

Contributor:

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Product Description:

Bacteria Classification: *Lactobacillaceae*, *Lactobacillus*

Species: *Lactobacillus jensenii*

Strain: JV-V16

Original Source: *Lactobacillus jensenii* (*L. jensenii*), strain JV-V16 is a human isolate from Texas.

Comment: *L. jensenii*, strain JV-V16 is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The whole genome shotgun sequencing of *L. jensenii*, strain JV-V16 is available (GenBank: ACGQ00000000.1).

L. jensenii is a Gram-positive, anaerobic, mesophilic, non-motile bacterium comprising the normal vaginal microbiota of human females. Its role in the regulation of pH through lactic acid production by anaerobic metabolism of glycogen helps promote a healthy ecosystem within the female lower vaginal tract.^{1,2}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Lactobacilli MRS Broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-105 was packaged aseptically, in screw-capped plastic 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 Condition:

Media:

Lactobacilli MRS broth and/or agar ([ATCC medium 416](#))

Incubation:

Temperature: 35°C to 37°C

Atmosphere: Aerobic or Microaerophilic (CO₂ is not required for growth)

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 tubes and plate at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH as part of the Human Microbiome Project: *Lactobacillus jensenii*, Strain JV-V16, HM-105."

Biosafety Level: 1

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. Srinivasan, S. and D. N. Fredericks. "The Human Vaginal Bacterial Biota and Bacterial Vaginosis." Interdiscip. Perspect. Infect. Dis. 2008 (2008): 750479. PubMed: 19282975.
2. Boskey, E. R., et al. "Acid Production by Vaginal Flora in Vitro is Consistent with the Rate and Extent of Vaginal Acidification." Infect. Immun. 67 (1999): 5170-5175. PubMed: 10496892.

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