Product Information Sheet for HM-105

Lactobacillus jensenii, Strain JV-V16

Catalog No. HM-105

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

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, USA.
Comments: *L. jensenii*, strain JV-V16 (HMP ID 0526) 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 *L. jensenii*, strain JV-V16 was sequenced at the Baylor College of Medicine (GenBank: ACGQ00000000).
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.

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 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 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:
Lactobacilli MRS broth or equivalent
Lactobacilli MRS agar or equivalent

Incubation:
Temperature: 37°C
Atmosphere: Aerobic or Microaerophilic (CO_2 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 tube, slant and/or plate at 37°C for 1 day.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, 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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

Disclaimers:
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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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