Product Information Sheet for HM-645

Lactobacillus jensenii, Strain 269-3

Catalog No. HM-645

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Lactobacillaceae, Lactobacillus*
Species: *Lactobacillus jensenii*
Strain: 269-3
Original Source: *Lactobacillus jensenii (L. jensenii)*, strain 269-3 was isolated in 2007 from human vaginal mucosa.[1,2]
Comments: *L. jensenii*, strain 269-3 (HMP ID 885) 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 269-3 was sequenced at the J. Craig Venter Institute (GenBank: ACOY01000000).
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.[3,4]

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-645 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 (with or without CO_2) or Microaerophilic

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 269-3, HM-645."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:

1. Liu, Y., Personal Communication.
2. HMP 0885 (*L. jensenii*, strain 269-3)
3. 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.
4. Srinivasan, S. and D. N. Fredericks. "The Human Vaginal Bacterial Biota and Bacterial Vaginosis." Interdiscip. Perspect. Infect. Dis. 2008 (2008): 750479. PubMed: 19282975.
5. Witkin, S. S., et al. "Influence of Vaginal Bacteria and D- and L-Lactic Acid Isomers on Vaginal Extracellular Matrix Metalloproteinase Inducer: Implications for Protection Against Upper Genital Tract Infections." mBio 4 (2013): e00460-13. PubMed: 23919998.