

Product Information Sheet for HM-706

Lactobacillus iners, Strain LEAF 2052A-d

Catalog No. HM-706

For research use only. Not for human use.

Contributor:

Sharon L. Hillier, Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, Magee-Womens Research Institute, University of Pittsburgh, Pittsburgh, Pennsylvania

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Lactobacillaceae*, *Lactobacillus*

Species: *Lactobacillus iners*

Strain: LEAF 2052A-d

Original Source: *Lactobacillus iners* (*L. iners*), strain LEAF 2052A-d was isolated from the vagina of a bacterial vaginosis patient.¹

Comments: *L. iners*, strain LEAF 2052A-d (HMP ID 9217) 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. iners*, strain LEAF 2052A-d was sequenced at the [J. Craig Venter Institute](#) (GenBank: [AEKI000000000](#))

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. iners is a Gram-positive, facultatively anaerobic, rod-shaped bacterium.² It is the most frequently detected bacterial species in the human vagina. *L. iners* is widely present in healthy females as well as those suffering from BV or who have undergone antimicrobial therapy, suggesting that it is an important indigenous species of vaginal flora.³

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X *Lactobacillus* sake medium supplemented with 5% DMSO.

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

Packaging/Storage:

HM-706 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 Conditions:

Media:

Chocolate agar ([ATCC medium 814](#)), Tryptic Soy Agar with 5% sheep blood or equivalent

Note: This organism does not grow well in broth. If your application requires growth in broth try *Lactobacillus* sake medium ([ATCC medium 142](#)) or equivalent.

Incubation:

Temperature: 37°C

Atmosphere: Aerobic with 5% CO₂ or Anaerobic (80% N₂:10% CO₂:10% H₂)

Propagation:

1. Keep vial frozen until ready for use, then thaw.
2. Transfer an aliquot onto an agar plate.
3. Incubate the plate at 37°C for 48 to 72 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Lactobacillus iners*, Strain LEAF 2052A-d, HM-706."

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 9217](#) (*L. iners*, strain LEAF 2052A-d)
2. Falsen, E., et al. "Phenotypic and Phylogenetic Characterization of a Novel *Lactobacillus* Species from Human Sources: Description of *Lactobacillus iners* sp. nov." *Int. J. Syst. Bacteriol.* 49 (1999): 217-221. PubMed: 10028266.
3. Macklaim, J. M., et al. "Microbes and Health Sackler Colloquium: At the Crossroads of Vaginal Health and Disease, the Genome Sequence of *Lactobacillus iners* AB-1." *Proc. Natl. Acad. Sci. U. S. A.* 108 (2011): 4688-4695. PubMed: 21059957.

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

