

**Lactobacillus iners, Strain LEAF 2053A-b**

**Catalog No. HM-705**

**Product Description:**

*Lactobacillus iners* (*L. iners*), strain LEAF 2053A-b was isolated from a human vagina. HM-705 lot 70055545 was produced by the inoculation of BEI Resources seed lot 60773287 into *Lactobacillus* Sake medium and incubated for 4 days at 37°C in an anaerobic atmosphere (< 5% O<sub>2</sub>; Remel™ Pack-Anaero™). The broth inoculum was transferred on Tryptic Soy agar with 5% defibrinated sheep blood and incubated for 4 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub>. The broth from the initial growth and the colonies from the solid growth medium were added to Tryptic Soy agar with 5% defibrinated sheep blood kolles and incubated for 3 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot. Quality control testing was completed under propagation conditions unless otherwise noted.

**Note:** Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

**Lot: 70055545**

**Manufacturing Date: 07NOV2022**

TEST	SPECIFICATIONS	RESULTS
<b>Phenotypic Analysis</b> Cellular morphology <sup>1</sup> Colony morphology  Motility (wet mount) VITEK® MS (MALDI-TOF)	Report results Report results  Report results <i>L. iners</i>	Gram-positive rods Circular, convex, entire, smooth and translucent  Non-motile <i>L. iners</i> (99.9%)
<b>Genotypic Analysis</b> Sequencing of 16S ribosomal RNA gene (~ 1280 base pairs)	≥ 99% sequence identity to <i>L. iners</i> , strain LEAF 2053A-b (GenBank: AEKH01000023.1)	100% sequence identity to <i>L. iners</i> , strain LEAF 2053A-b (GenBank: AEKH01000023.1)
<b>Purity</b> Anaerobic 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood  Aerobic with 5% CO <sub>2</sub> 7 days at 37°C on Tryptic Soy agar with 5% defibrinated sheep blood	Consistent with expected colony morphology  Consistent with expected colony morphology	Consistent with expected colony morphology  Consistent with expected colony morphology
<b>Viability (post-freeze)</b>	Growth	Growth

<sup>1</sup>*L. iners* has a peptidoglycan layer and should stain Gram-positive, however, Gram-variable and Gram-negative cultures are commonly observed for this organism [De Backer E., et al. "Quantitative Determination by Real-time PCR of Four Vaginal *Lactobacillus* Species, *Gardnerella vaginalis* and *Atopobium vaginae* indicates an Inverse Relationship between *L. gasseri* and *L. iners*." BMC Microbiol. 7 (2007): 115. PubMed: 18093311

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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