

# **Product Information Sheet for HM-1277**

# Lactobacillus crispatus, Strain PSS7772C

# Catalog No. HM-1277

# For research use only. Not for human use.

### Contributor:

Amanda Lewis, Ph.D., Assistant Professor, Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, Missouri, USA

#### Manufacturer:

**BEI Resources** 

## **Product Description:**

Bacteria Classification: Lactobacillaceae, Lactobacillus

Species: Lactobacillus crispatus

Strain: PSS7772C

Original Source: Lactobacillus crispatus (L. crispatus), strain PSS7772C was isolated in 2014 from urine of a pregnant

woman in St. Louis, Missouri, USA.1,2

<u>Comments</u>: L. crispatus, strain PSS7772C (<u>HMP ID 3209</u>) is a reference genome for <u>The Human Microbiome Project</u> (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *L. crispatus*, strain PSS7772C was sequenced at the Genome Institute at <u>Washington University</u> (GenBank: <u>LSQY000000000</u>).

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. crispatus* is a Gram-positive, facultatively 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.<sup>3,4</sup> Loss of *L. crispatus* has been noted in women with bacterial vaginosis.<sup>3</sup>

## **Material Provided:**

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

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

## Packaging/Storage:

HM-1277 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 NYC III broth or equivalent Lactobacilli MRS agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent Incubation:

Temperature: 37°C

Atmosphere: Anaerobic or aerobic (with or without CO<sub>2</sub>)

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- Transfer the entire thawed aliquot into a single tube of broth.
- Use several drops of the suspension to inoculate an agar slant and/or plate.
- Incubate the tube, slant and/or plate at 37°C for 1 to 2 days.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: Lactobacillus crispatus, Strain PSS7772C, HM-1277."

## 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 <a href="http://www.cdc.gov/biosafety/publications/bmbl5/index.htm">http://www.cdc.gov/biosafety/publications/bmbl5/index.htm</a>.

## **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

BEI Resources

E-mail: contact@beiresources.org

www.beiresources.org

Tel: 800-359-7370

Tel: 800-359-7370 Fax: 703-365-2898



# **Product Information Sheet for HM-1277**

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. Lewis, A., Personal Communication.
- 2. HMP ID 3209 (L. crispatus, strain PSS7772C)
- Srinivasan, S. and D. N. Fredericks. "The Human Vaginal Bacterial Biota and Bacterial Vaginosis." <u>Interdiscip.</u> <u>Perspect. Infect. Dis.</u> 2008 (2008): 750479. PubMed: 19282975.
- Boskey, E. R., et al. "Acid Production by Vaginal Flora In Vitro Is Consistent with the Rate and Extent of Vaginal Acidification." <u>Infect. Immun.</u> 67 (1999): 5170-5175. PubMed: 10496892.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

BEI Resources www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898