

***Lactobacillus gasseri*, Strain 224-1**

Catalog No. HM-647

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 gasseri*

Strain: 224-1

Original Source: *Lactobacillus gasseri* (*L. gasseri*), strain 224-1 was isolated in 2007 from human vaginal mucosa.¹

Comments: *L. gasseri*, strain 224-1 (HMP ID 9209) 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. gasseri*, strain 224-1 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [ADFT00000000](#)).

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. gasseri is a Gram-positive, mesophilic, non-motile facultative anaerobe bacterium that is commonly found in the normal human gastrointestinal tract. It is commonly used in the production of yogurt and other dairy products and has also been shown to be an effective probiotic in suppressing *Helicobacter pylori* infections in humans.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-647 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 (CO₂ 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 gasseri*, Strain 224-1, HM-647."

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.

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References:

1. Liu, Y. and Q. Xu, Personal Communication.
2. Hamilton-Miller, J. M. "The Role of Probiotics in the Treatment and Prevention of *Helicobacter pylori* Infection." *Int. J. Antimicrob. Agents* 22 (2003): 360-366. PubMed: 14522098.

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