

***Lactobacillus gasseri*, Strain MV-22**

Catalog No. HM-644

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Lactobacillaceae*, *Lactobacillus*

Species: *Lactobacillus gasseri*

Strain: MV-22

Original Source: *Lactobacillus gasseri* (*L. gasseri*), strain MV-22 was isolated in 2007 from the vaginal mucosa of a healthy U.S. woman of child-bearing age.^{1,2}

Comments: *L. gasseri*, strain MV-22 ([HMP ID 515](#)) 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 MV-22 was sequenced at the [Broad Institute](#) (GenBank: [ABWH00000000](#)).

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.³

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-644 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:

Lactobacilli MRS broth or equivalent

Lactobacilli MRS agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic 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 tubes and 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 MV-22, HM-644.”

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/od/ohs/biosfty/bmb15/bmb15toc.htm.

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References:

1. Liu, Y., Personal Communication.
2. [HMP ID 515](#) (*L. gasseri*, strain MV-22)
3. 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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