

***Lactobacillus paragasseri*, Strain JV-V03**

Catalog No. HM-104

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 paragasseri* (Previously referred to as *Lactobacillus gasseri*, this species has been reclassified and the species designation on the vial label refers to the old nomenclature.)¹

Strain: JV-V03

Original Source: *Lactobacillus paragasseri* (*L. paragasseri*), strain JV-V03 was isolated from a human female urogenital tract.²

Comments: *L. paragasseri*, strain JV-V03 ([HMP ID 0514](#)) 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. paragasseri*, strain JV-V03 was sequenced at [Baylor College of Medicine](#) (GenBank: [ACGO00000000](#)).

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. paragasseri 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-104 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: 35°C to 37°C

Atmosphere: Aerobic with or without CO₂

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 paragasseri*, Strain JV-V03, HM-104."

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Zheng J., et al. "A Taxonomic Note on the Genus *Lactobacillus*: Description of 23 Novel Genera, Emended Description of the Genus *Lactobacillus* Beijerinck 1901, and Union of *Lactobacillaceae* and *Leuconostocaceae*." *Int. J. Syst. Evol. Microbiol.* 70 (2020): 2782-2858. PubMed: 32293557.
2. [HMP 0514](#) (*L. paragasseri*, strain JV-V03)
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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