Product Information Sheet for HM-104

Lactobacillus gasseri, Strain JV-V03

Catalog No. HM-104

For research use only. Not for human use.

Contributor:
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Product Description:
Bacteria Classification: *Lactobacillaceae, Lactobacillus*
Species: *Lactobacillus gasseri*
Strain: JV-V03
Original Source: *Lactobacillus gasseri* (*L. gasseri*), strain JV-V03 is a human female urogenital tract isolate.
Comment: *L. gasseri*, strain JV-V03 is being sequenced as part of The Human Microbiome Project (HMP). HMP is an initiative to identify and characterize human microbial flora. The whole genome shotgun sequencing of *L. gasseri*, strain JV-V03 is available (GenBank: ACGO00000000.1).

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.[1]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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 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 Condition:
Media:
Lactobacilli MRS broth and/or agar (ATCC medium 416)
Incubation:
Temperature: 35°C to 37°C
Atmosphere: Aerobic or Microaerophilic (CO_2 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 tubes and plate at 37°C for 24 hours.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH as part of the Human Microbiome Project: *Lactobacillus gasseri*, 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. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. 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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