

***Lactobacillus gasseri*, Strain JV-V03**

Catalog No. HM-104

Product Description: *Lactobacillus gasseri* (*L. gasseri*), strain JV-V03 is a human female urogenital tract isolate.

Lot¹: 58730620

Manufacturing Date: 20AUG2009

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Phenotypic Analysis² Cellular morphology Colony morphology ³ Viability (10°C) Viability (45°C) Viability (50°C) Aerobic growth Motility Biochemical Characterization ^{4,5} Catalase activity Nitrate reduction Aesculin hydrolysis Dextran synthesis from sucrose Growth in the presence of 15% Ethanol Glycosidic Fermentation: Cellobiose Salicin Sucrose Raffinose Lactose Maltose D-Fructose D-Mannitol D-Melezitose L-Rhamnose D-Xylose L-Arabinose D-Glucose Glucose to CO ₂ Gluconate to CO ₂ | Gram-positive rod Report results Report results Report results Report results Growth Non-motile Negative Report results Positive Report results Report results Positive Positive Positive Negative 11-89% of strains are positive 11-89% of strains are positive Positive Negative Negative Negative Negative Negative Negative Positive Report results Report results | Gram-positive rod Circular, flat, entire, opaque and white (Figure 1) No growth No growth No growth Growth Non-motile Negative Negative Positive Negative Growth Positive Positive Positive Negative Positive Positive Negative Negative Negative Negative Negative Positive No CO ₂ produced No CO ₂ produced |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 850 bp) | Consistent with NCBI Reference Sequence: NZ_ACGO01000023 | Consistent with NCBI Reference Sequence: NZ_ACGO01000023 ⁶ |
| Riboprinter[®] Microbial Characterization System | Presumptive identification of <i>L. gasseri</i> | Presumptive identification of <i>L. gasseri</i> |
| PCR Assay of Extracted DNA 16S ribosomal RNA gene | ~ 1500 bp amplicon | ~ 1500 bp amplicon |
| Viability (post-freeze)⁷ | Growth | Growth |

¹HM-104 was produced by inoculation of the deposited material into Lactobacilli MRS Broth (BD 288130) and incubated for 24 hours at 37°C in an aerobic atmosphere.

²The phenotypic characterization of HM-104 was completed after incubation at 37°C in an aerobic atmosphere without CO₂ (characterization assays cannot be completed in the presence of CO₂). If no result was observed after 14 days incubation then the test was considered negative.

³48 hours at 37°C in an aerobic atmosphere with 5% CO₂ on Lactobacilli MRS Agar

⁴Sneath, P., et al. (Eds.) (1986) Bergey's Manual of Systemic Bacteriology, Volume 2.

⁵Dicks, L. M., et al. "*Lactobacillus formicis* sp. nov., Isolated from the Posterior Fornix of the Human Vagina." *Int. J. Syst. Evol. Microbiol.* 50 (2000): 1253-1258. PubMed: 10843070.

⁶Also consistent with other *Lactobacillus* species
⁷24 hours at 37°C and aerobic atmosphere in Lactobacilli MRS Broth

Figure 1



Date: 13 JAN 2010

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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