b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HM-105

Lactobacillus jensenii, Strain JV-V16

Catalog No. HM-105

Product Description: *Lactobacillus jensenii* (*L. jensenii*), strain JV-VI6 is a human isolate from Texas.

Lot[1]: 58730621 **Manufacturing Date: 21AUG2009**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis[2]		
Cellular morphology	Gram-positive rod	Gram-positive rod
Colony morphology[3]	Report results	Circular, flat, entire, opaque, gray/white (Figure 1)
Viability (10°C)	No growth	No growth
Viability (45°C)	Growth	Growth
Viability (50°C)	Report results	No growth
Aerobic growth	Growth	Growth
Motility	Non-motile	Non-motile
Biochemical Characterization[4-6]		
Catalase activity	Negative	Negative
Nitrate reduction	Negative	Negative
Aesculin hydrolysis	Report results	Positive
Dextran synthesis from sucrose	Report results	Negative
Growth in the presence of 15% Ethanol	Report results	No growth
Glycosidic Fermentation:		
Cellobiose	Positive	Positive
Salicin	Positive	Positive
Sucrose	Positive	Positive
Raffinose[6,7]	> 90% of strains are negative[6,7]	Positive[6,7]
Lactose	Negative	Negative
Maltose	11-89% of strains are positive	Positive
D-Fructose	Positive	Positive
D-Glucose	Positive	Positive
D-Mannitol	11-89% of strains are positive	Negative
D-Melezitose	Negative	Negative
L-Rhamnose	Negative	Negative
D-Xylose	Negative	Negative
L-Arabinose	Negative	Negative
Glucose to CO_2	No CO_2 produced	No CO_2 produced
Gluconate to CO_2	No CO_2 produced	No CO_2 produced
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 820 bp)	Consistent with NCBI Reference Sequence: NZ_ACGQ01000014	Consistent with NCBI Reference Sequence: NZ_ACGQ01000014[8]
PCR Assay of Extracted DNA		
16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)[9]	Growth	Growth

[1]HM-105 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.

[2]The phenotypic characterization of HM-105 was completed after incubation for 48 hours at 37°C in an aerobic atmosphere without CO_2 (characterization assays cannot be completed in the presence of CO_2). If no result was observed after 14 days incubation then the test was considered negative.

[3]48 hours at 37°C in an aerobic atmosphere with 5% CO_2 on Lactobacilli MRS Agar

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

[5]Carlsson, J. and L. Gothefors. "Transmission of *Lactobacillus jensenii* and *Lactobacillus acidophilus* from Mother to Child at Time of Delivery." J. Clin. Microbiol. 1 (1975): 124-128. PubMed: 809467.

[6]Gasser, F., M. Mandel and M. Ragosa. "*Lactobacillus jensenii* sp. Nov., A New Representative of the Subgenus *Thermobacterium*." J. Gen. Microbiol. 62 (1970): 219-222. PubMed: 5493596.

[7]Raffinose is known to be fermented by a few strains of *L. jensenii*

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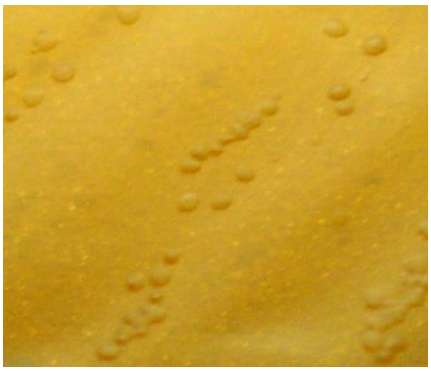
[8]Also consistent with other *Lactobacillus* species
[9]24 hours at 37°C and aerobic atmosphere in Lactobacilli MRS Broth

Figure 1



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