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Microbiological study of synbiotic fermented whey drink

TELLABATI V. MADHAVI AND R. K. SHAH

ABSTRACT : The present investigation was carried out for formulation of functional probiotic/synbiotic whey drink with orange juice and also to study their microbiological. Whey based functional foods were in two different forms, A [whey + sugar @ 10 % (w/v) + orange juice @ 10 % (v/v)], B [A + inulin @ 3 % (w/v)], and inoculated with probiotic culture *Lb.rhamnosus* @ 2.0% v/v. The two blends (A and B) developed was subjected to microbiological, initially for the fresh (0 day) and upto 28 days of stipulated refrigerated storage at an interval of 7 days at $4 \pm 1^{\circ}$ C. During refrigerated storage for 28 days, *Lactobacillus* count remained well above 10^{8} cfu/ml for both the samples (A and B). The product had no yeast and mold count as well as coliform count throughout the refrigerated storage period. These products can surge ahead in market as appealing functional fermented whey drink for consumers as an alternative of carbonated soft drinks and give health benefits due to presence of probiotic culture, inulin, whey proteins and other whey constituents as well as orange fruit juice.

KEY WORDS : Synbiotic whey drink, Orange juice, Inulin, Microbiological, Lactobacillus count.

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Address for correspondence : Tellabati V. Madhavi, Department of Dairy Microbiology, SMC College of Dairy Science, ANAND (GUJARAT) INDIA Email : madhavismc@gmail.com

MEMBERS OF RESEARCH FORUM

Associated Authors': R.K. Shah, Department of Dairy Microbiology, SMC College of Dairy Science, ANAND (GUJARAT) INDIA