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Evaluation of safety and human tolerance of the oral probiotic *Streptococcus salivarius* K12: a randomized, placebo-controlled, double-blind study.

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Author information

Abstract

Streptococcus salivarius is naturally a predominant member of the human oropharynx and the commercial probiotic strain K12 has been consumed for more than a decade. The present study examines the health responses of human volunteers to oral ingestion of high doses of *S. salivarius* K12. A randomized group of 53 subjects received a dose of 1×10^{10} cfu *S. salivarius* K12 (N=25) or placebo (N=28) for 28 days, followed by a 28-day wash out period. Blood, urine and saliva samples were collected at baseline and following treatment and analyzed, while the oral and gastrointestinal tolerance of the subjects to the dosing regimen was determined by use of questionnaires. Adverse events (AE)s were recorded for both groups. No statistically significant differences between the probiotic and placebo treated groups were detected in either the blood clinical chemistry or hematology results ($P > 0.05$). The questionnaire responses of the subjects indicated that both treatments were well tolerated. The frequency and intensity of AEs was similar in the two groups. This data demonstrates that the daily ingestion of *S. salivarius* K12 over a 28-day period does not adversely affect the human host and supports the safety of its oral delivery in a food-based carrier.

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