A Simplified Media for Salivary Lactobacillus Culture

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The medium for determination of salivary for lactobacillus by Snyder test must be melted at 45° C before use so it is not suitable for field study. The objective of this study is to decrease the agar concentration in Snyder medium until it become a semi-solid medium and able to mix with saliva without melting. The simplified media contained 0.1, 0.2, 0.3, 0.4 and 0.5% agar were prepared. 0.2 ml of < 10^2 CFU/ml lactobacillus broth with gave the result by Snyder test = 0 were inoculate to 10 tubes of each concentration of agar. The procedures were repeated by inoculation of 10^3 , 10^4 and > 10^6 CFU/mllactobacillus broth with gave the result by Snyder test test = +1, +2 and +3 respectively. All tube were incubated at 37° C and color change were recorded at 24, 48 and 72 hrs. according to Snyder test. The results were compared by one-way ANOVA at 95% confidence limit. It was found that the medium contained 0.1% agar showed the same results as Snyder test at every level of lactobacillus concentration with no significant difference while the medium contained 0.2, 0.3, 0.4 and 0.5% agar showed the various results, and were significant difference at the some level of lactobacillus concentration (p<0.05). It was concluded that the simplified media with 0.1% agar gave the same result as Snyder test

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