The Efficiency of a simplified Media for Salivary Lactobacillus culture

*Techataratip O., Chaloryoo A., Patimanukaseam P., Punya-ngarm Y. Department of Biochemistry

Salivary lactobacillus determination by Snyder test is easier than the colony count, but this method is not convenient for the field study since the medium must be melted at 45° C before use. By decreasing the agar concentration to 0.1%, the medium was semi-solid and able to mix with saliva without melting. The objective of this study is to determine the effeciency of the simplified semi-sloid medium by determination salivary lactobacillus of 58 volunteers by this medium compared with Snyder test. After inoculation of saliva and incubation at 37°C. The color changes were recorded at 24, 48 and 72 hours respectively according to Snyder's interpretation. The comparison of both methods was analyzed by one-way ANOVA at 95% confidence limit. The results showed that the results obtained from the simplified medium were significantly different from the results of Snyder test (p<0.05). It was concluded that the decrease of agar concentration in Snyder medium would influence on the efficiency of salivary lactobacillus determination by Snyder test and it was not suggestive to use.

Supported by Dental Research Fund, Dental research project 3205-312 # 38 / 2002 Faculty of Dentistry, Chulalongkorn University