ABSTRACT

Background. One of the content of tooth paste is detergent whose function is foaming agent. Detergent that commonly used in tooth paste is sodium lauryl sulphate (SLS). If the concentration of SLS more than tolerance range, this substance will easily destroyed saliva by dissolved its natural defense system. Some studied find that SLS is a dangerous denaturant for oral tissue and it can irritate epidermal tissue. Sapindus rarak contains saponin that has a potential possibility to replaced the SLS function as foaming agent.

Purpose. The aim of this study was to know whether Sapindus rarak can be applied as foaming agent in tooth paste.

Method. This study was an experimental laboratory research. Tooth paste without foaming agent substance, tooth paste with sapindus rarak and tooth paste with SLS were experimented on horizontal brushing machine to know the difference of each other in released foam. The research was analyzed by Chi-Square test.

Result. Tooth paste without foaming agent did not released foam, but tooth paste with Sapindus rarak released foam as much as tooth paste with SLS.

Conclusion. Sapindus rarak can be applied as foaming agent in tooth paste.

Key words: tooth paste, foaming agent, SLS, Sapindus rarak