

## ABSTRACT

*Toothpaste is a substance that has the ability to remove dental plaque. One of toothpaste's ingredient is detergent. Detergent that often used in toothpaste is Sodium Lauryl Sulphat (SLS). Maximum concentration allowed for this ingredient is 1-2%. The purposes for this study was to determine differences in the effect of toothpaste with SLS 3% and toothpaste without SLS.*

*This is quasi experimental research with pre and post design. Twenty sample, divided into 2 group : SLS 3% and non SLS group. NaCl solution concentration are 0,02M; 0,05M;0,075M;0,1M;0,125M;0,15M;0,175M; and 0,2M. Toothpaste made by researchers in the pharmaceutical laboratory. The result was analyzed using paired t-test pearson correlation test.*

*The observation result before toothbrushing using SLS 3% toothpaste is 5,70 and non-SLS toothpaste is 5,50. The observation result after toothbrushing using SLS 3% toothpaste is 4,80 and non-SLS toothpaste is 5,40. Mean value before toothbrushing on non-SLS group showed that there was not found any decrease sensitivity. SLS 3% group showed decrease in sensitivity salty taste. Conclusion for this study was toothpaste with SLS 3% could decrease sensitivity for salty taste.*

*Key words : Sodium Lauryl Sulphat, sensitivity taste, NaCl*