

ABSTRACT

USABILITY TEST OF SECANG WOOD EXTRACT LIP BALM (*Caesalpinia sappan* L.)

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Currently, quite a few cosmetic products use dangerous ingredients in their product composition. Therefore, the public as potential consumers must be more careful in choosing lip balm as a cosmetic product that is safe and uses natural ingredients. One of the organic or natural ingredients of lip balm can be obtained from secang wood extract. Making lip balm preparations using secang wood extract requires knowing its success in meeting the specifications for acceptability characteristics through usability testing. The aim of this research is to produce lip balm formulations with 1% secang wood extract and lip balm with 5% secang wood extract and to determine the differences between lip balm preparation formulations with 1% secang wood extract and lip balm with 5% secang wood extract in meets acceptability characteristic specifications.

This research is experimental research. The panelists for the usability test were 20 female employees of the Thamrin Tiga Lima Madiun Main Outpatient Clinic who were determined using a quota sampling technique. The instrument of this research is a questionnaire using 7 parameters, including: skin tolerability, skin care effect, skin feeling, product absorption, smell, overall impression, and recommendation. The usability test was carried out after respondents used lip balm preparations with 1% secang wood extract and lip balm preparations with 5% secang wood extract for 7 days. After use, respondents are given information regarding filling in the link via Google Form. Data were analyzed using the Wilcoxon Signed-Rank test, which was previously tested for normality using the Shapiro-Wilk test and homogeneity of data using the Levene test.

The usability test data showed a normal and homogeneous distribution, so the hypothesis test was carried out using the Wilcoxon Signed-Rank test. Based on the research results, it can be concluded that the lip balm preparation formula with 1% secang wood extract and 5% secang wood extract lip balm has met the specifications for acceptability characteristics. Usability test results show that lip balm preparations with 5% secang wood extract are better than lip balm preparations with 1% secang wood extract.

Keywords: *Usability Test, Lip Balm, Secang Wood*