

Phytochemical Screening And Evaluation Of Transparent Soap With Addition Of Wedi Snakefruit (*Salacca zalacca*) Rind Extract

Romadhiyana Kisno Saputri^{1*}, Akhmad Al-Bari², Dinda Intan Pramesti³

^{1,2,3}Department of Pharmacy, Faculty of Health Sciences, Universitas Nahdlatul Ulama Sunan Giri

*romadhiyana.ks@unugiri.ac.id.

ABSTRACT

Wedi snakefruit (Salacca zalacca) was a native fruit from Bojonegoro District. Snakefruit contains secondary metabolites that act as antioxidants, this allows the rind of snakefruit to also contain the same secondary metabolites. Antioxidants in snakefruit rind can be used as a source of natural antioxidants for the transparent soap. Transparent soap with natural antioxidant is expected to prevent damage caused by free radicals in the skin. This research aims to evaluating the secondary metabolites from wedi snakefruit (Salacca zalacca) rind extract and to knowing the effect of wedi snakefruit (Salacca zalacca) rind extract addition toward transparent soap quality. The research samples were collected at Wedi Village, Bojonegoro. The extract of wedi snakefruit (Salacca zalacca) rind was prepared by maceration method using ethanol 96% as a solvent and followed by evaporating using rotary evaporator. The secondary metabolites of crude extract was analyzed by phytochemical screening with standard methods. Phytochemical screening performed to determine the pharmacological active ingredient such as flavonoids, saponins, alkaloids, steroids and triterpenoid, especially those with antioxidant activity. The analysis on quality of transparent soap were sensory evaluation test, irritation test, foam height and stability, pH and water content. The result showed that the chemical compounds of wedi snakefruit (Salacca zalacca) rind extract positive for flavonoids, saponins, alkaloids, steroid and triterpenoids. Transparent soap with addition of wedi snakefruit (Salacca zalacca) rind extract have a yellow, transparent and distinctive smell of fragrance oil, irritation value 0, foam height between 1,3 – 5,2 cm that were no significantly different and stable after 5 minutes of testing, pH between 9,5 – 10. Wedi snakefruit (Salacca zalacca) rind extract compunds the secondary metabolites that act as antioxidant. All the results of the evaluation of transparent soap according to the parameters Indonesian National Standard (SNI).

Keyword: phytochemical screening, evaluation of transparent soap, wedi snakefruit (*Salacca zalacca*) rind extract