

ABSTRACT

Nabila Alfianty NIM 21482020018 <i>S1 Clinical And Community Pharmacy Study Program</i>	<i>Advisor</i> Devi Anggraini Putri, S.Si., M.Si NIDN. 0725089301
<i>THE COMPARISON OF MACERATION AND SOXHLETATION EXTRACTION METHODS ON THE TOTAL FLAVONOID LEVELS OF TOBACCO LEAVES ETHANOL EXTRACT (Nicotiana tabacum L)</i>	
<i>ABSTRACT</i> <i>Tobacco leaves have a great opportunity in alternative herbal medicine because of several ingredients in them, one of which is flavonoid compounds. Flavonoids are phenol compounds that belong to a large group of polyphenols that have the ability to capture free radicals. A number of plants that contain flavonoids have antioxidant, antibacterial, antiviral, anti-inflammatory, anti-allergic, and anti-cancer activities. The purpose of this study is to determine the difference in the extraction method of maceration and soxhletation on the total flavonoid level of ethanol extract of tobacco leaves (Nicotiana tabacum L).</i> <i>The design of this study used experimental research. Tobacco leaves samples (Nicotiana tabacum L) were obtained from Bandungan Village, Pakong District, Pamekasan Regency. The extraction method used is maceration and soxhletation using 96% ethanol solvent. Quantitative analysis to determine total flavonoid levels was performed using UV-Vis spectrophotometry. The flavonoid content was expressed in mg of quercetin equivalent per gram of dry weight (mg QE/g)</i> <i>The results of the study showed that tobacco leaves (Nicotiana tabacum L) had flavonoid content. The differences between the extraction methods resulted in different levels of flavonoids in the ethanol extract of tobacco leaves (Nicotiana tabacum L). The soxhletation extraction method was more effective for extracting tobacco leaves (Nicotiana tabacum L) than the maceration method. The maceration method yielded a total flavonoid level of 21.74 mgQE/g and a soxhletation method of 27.90 mgQE/g.</i> <i>Suggestions for the next researchers to continue the research by testing the content of other compounds by comparing several extraction methods.</i>	
<i>Keywords: Tobacco (Nicotiana tabacum L), Flavonoids, Maceration, Soxhletation</i>	