

PENGARUH KONSENTRASI LARUTAN EKSTRAK DAUN LIDAH MERTUA TERHADAP ABSORBANSI DAN TRANSMITANSI PADA LAPISAN TIPIS

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Abstract	It has done research on the effect of the extract solution concentration in-law tongue (Sansevieria trifasciata) on the absorbance and transmittance in thin layers. Experimental research is that by extracting the leaves of the tongue-in-law to obtain a dye. Then made a solution with a concentration of 1%, 2%, 3%, 4%, 5%, 6% and 7%, and also made pure aloe extract solution, a solution of TiO_2 , and a mixture of both. Characterization of a solution made with UV-Vis spectrometer 1800 which aims to determine the value of absorbance and transmittance. Spectrometer set at a wavelength of 411nm- 665 nm and an absorbance range 0-3. The results show that there is a relationship between the concentration of the absorbance by the equation $A = 22,9c + 0.1946$. The greater the concentration used, the greater the smaller the value of absorbance and transmittance values. The maximum absorbance obtained at a wavelength $\lambda = 411 \text{ nm}$ and $\lambda = 665 \text{ nm}$ while the absorbance value and the maximum transmittance respectively 3,58 and 1,433. . Key words: leaf extract in-law tongue (Sansevieria trifasciata), absorbance, transmittance.
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