

ABSTRAK

FORMULASI SEDIAAN LOTION KOMBINASI EKSTRAK KULIT ALPUKAT (*Persea americana*) DAN EKSTRAK DAUN LENGKENG (*Dimocarpus longan*)

Nur Wulan Noviana

Skin damage is often characterized by the appearance of wrinkles, cracks, scaling, and dryness, caused by free radicals from vehicle emissions and ultraviolet radiation. This can lead to a decrease in self-confidence, necessitating the use of cosmetics containing antioxidants to moisturize the skin. This study explores the use of avocado peels and longan leaves, known for their antioxidant properties, in lotion formulations. Two lotion variants were developed: an avocado peel extract lotion and a combination lotion of avocado peel extract and longan leaf extract. Organoleptic tests showed that both formulas had a distinctive rose scent, smooth texture, and homogeneity, with the avocado peel extract lotion being milky brown and the combination lotion being brown. Both formulas met pH specifications, with average pH levels of 6.33 for the avocado peel extract lotion and 6.46 for the combination lotion, both within the skin's pH range. Statistical tests indicated no significant difference in pH concentration ($p = 0.556$) or spreadability ($p = 0.946$). The addition of longan leaf extract does not affect the physical characteristics of avocado peel extract lotion. The combination formula aims to serve as an antioxidant lotion because both extracts contain phenolic compounds, flavonoids, and polyphenols. Further research is needed to test the antioxidant activity of the lotion using the DPPH method, with vitamin C as a comparator, and measuring absorbance using UV-Vis spectrophotometry to determine % inhibition, linear regression equation, and IC_{50} .

Keyword : *Avocado peel, Longan leaf, evaluasi karakteristik.*