

## INTISARI

**FITRIANA E. 2021, UJI AKTIVITAS ANTI-AGING EMULGEL EKSTRAK ETANOL DAUN UBI JALAR UNGU PADA KULIT PUNGGUNG KELINCI NEW ZEALAND YANG DIPAPAR SINAR U-VA, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Daun ubi jalar ungu mengandung golongan flavonoid terutama antosianin sebagai antioksidan alami. Antioksidan dapat menghambat dan menetralkan radikal bebas. Radikal bebas memiliki dampak penuaan dini. Formula sediaan emulgel dibuat untuk mempermudah pengaplikasian sediaan topikal. Penelitian ini dilakukan untuk mengetahui aktivitas emulgel ekstrak etanol daun ubi jalar ungu sebagai anti-aging secara *in vivo* menggunakan kelinci yang dipapar sinar UVA.

Ekstrak daun ubi jalar ungu dilakukan penetapan kadar kelembapan, bobot jenis dan identifikasi kandungan kimia. Ekstrak dibuat sediaan emulgel, diuji mutu fisiknya. Pengujian aktivitas anti-aging menggunakan 5 ekor kelinci. Punggung bulu dicukur, induksi sinar UVA selama 6 jam sehari selama 2 minggu. Kulit punggung kelinci dioles emulgel ekstrak daun ubi jalar ungu 1.5%, 3%, dan 6% selama 30 hari. Pengamatan Parameter persen kolagen, elastisitas dan kelembapan sebelum, sesudah induksi dan setelah kelinci dioles emulgel.

Hasil uji mutu fisik semua formula memenuhi persyaratan organoleptis. Hasil uji stabilitas emulgel F1, F2, F3, F4 memenuhi persyaratan organoleptis dan pH. Hasil uji iritasi kulit menunjukkan emulgel sangat sedikit mengiritasi. Hasil penelitian menunjukkan sediaan emulgel ekstrak ubi jalar ungu konsentrasi 6% memberikan efek terapi paling baik sebagai anti-aging.

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**Kata kunci:** daun ubi jalar ungu, *anti-aging*, antioksidan, emulgel

## ABSTRACT

**FITRIANA E. 2021, ANTI-AGING ACTIVITY TEST OF EMULGEL ETHANOL EXTRACT OF PURPLE SWEET LEAF ON THE BACK SKIN OF NEW ZEALAND RABBIT WHICH IS EXPOSED TO UVA LIGHT, THESIS, FACULTY OF PHARMACEUTICAL, SETIA BUDI UNIVERSITY, SURAKARTA.**

Purple sweet potato leaves flavonoid group veral anthocyanin verbinding compounds as natural antioxidants. Antioxidants can inhibit and neutralize free radicals. Free radicals have the effect of premature aging. Formula preparation emulgel created to facilitate the application of preparations topical. This research was conducted to determine the activity of the emulgel extract ethanol leaves of potato sweet violet as an anti-aging in vivo using rabbits were exposed rays UVA.

Extracts of the leaves potato sweet violet done fixing the levels of moisture, weight type and identification of the content of the chemical. The extract was made into an emulgel preparation, and its physical quality was tested. Testing the activity of anti-aging using the 5 -tailed rabbits. The back of the hair is shaved, induced by UVA rays for 6 hours a day for 2 weeks. The rabbit's back skin was smeared with purple sweet potato leaf extract emulgel 1.5%, 3%, and 6% for 30 days. Observation Parameter percent collagen, elasticity, and moisture before, after induction and after rabbit smeared emulgel.

The results of the physical quality test of all formulas met the organoleptic requirements. Emulgel stability test results F1, F2, F3, F4 met the organoleptic and pH requirements. The results of the skin irritation test showed that the emulgel was very slightly irritating. Results of the study show the preparation emulgel extract potato sweets violet concentration of 6% give the effect of therapy most well as anti-aging.

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**Key words:** Purple sweet potato leaves, *anti-aging*, antioxidants, emulgel