

INTISARI

ULA, SF. 2016. UJI AKTIVITAS PENYEMBUHAN LUKA BAKAR DAN IRRITASI AKUT DERMAL GEL EKSTRAK ETANOLIK DAUN JARAK (*Ricinus communis* L.) PADA KELINCI GALUR *NEW ZEALAND*, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Daun jarak (*Ricinus communis* L.) mengandung alkaloid, flavonoid, dan saponin yang diduga mampu menyembuhkan luka bakar. Penelitian ini bertujuan mengetahui apakah gel ekstrak etanolik daun jarak dapat menyembuhkan luka bakar dan mempunyai efek samping mengiritasi kulit kelinci jantan galur *New Zealand*.

Gel ekstrak etanolik daun jarak dibuat dalam tiga formula 2%, 4% dan 8%. Stabilitas fisiknya diuji organoleptis, homogenitas, pH, viskositas, daya sebar dan daya lekat. Uji aktivitas penyembuhan luka bakar dan iritasi akut dermal dilakukan pada punggung kelinci galur *New Zealand*. Hasil pengukuran penyembuhan luka bakar dianalisis secara statistik menggunakan analisa varians untuk mengetahui beda nyata pada hari ke 21. Hasil pengamatan iritasi akut dermal dibuat tabel dan dihitung indeks iritasi primer.

Gel ekstrak daun jarak memenuhi syarat uji stabilitas fisik sediaan gel meliputi uji organoleptis, homogenitas, pH, viskositas, daya sebar dan daya lekat. Pemberian gel ekstrak daun jarak dengan konsentrasi 2%, 4%, 8% memberikan efek terhadap penyembuhan luka bakar. Gel ekstrak etanolik daun jarak tidak menimbulkan iritasi berupa eritema dan edema pada kulit kelinci galur *New Zealand* dengan indeks iritasi primer pada ketiga formula termasuk dalam kategori sangat ringan (*negligible*).

Kata kunci: gel, daun jarak, luka bakar, stabilitas fisik, kelinci

ABSTRACT

ULA, SF. 2016. THE ACTIVITY TEST HEALING BURNS AND ACUTE DERMAL IRRITATION OF GEL CASTOR LEAVES ETHANOLIC EXTRACT IN NEW ZEALAND RABBIT, THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Castor leaves (*Ricinus communis* L.) contains alkaloid, flavonoid and saponin were allegedly capable to heal burns. This study aimed to determine whether the gel castor leaves ethanolic extract can heal burns and has side effects irritate the skin of rabbit of *New Zealand* strain.

Gel castor leaves extract was made in formulas 2 %, 4 % and 8 %. Physical stability was tested organoleptic, homogeneity, pH, viscosity, dispersion and adhesion. Activity of burns healing and acute dermal irritation was conducted at back of rabbit *New Zealand* strain. Burn healing measurement results were analyzed statistically using variance analysis to know difference on 21th day. Acute dermal irritation results were made table and calculated primary irritation index.

Gel castor leaves extract qualified physical stability test gel formulation included organoleptic test, homogeneity, pH, viscosity, dispersion and adhesion. Administration of gel castor leaves extract with a concentration of 2 %, 4 %, 8 % give effect to the healing of burns. Gel castor leaves extract does not cause irritation such as erythema and edema on the skin of rabbit of *New Zealand* strain with primary irritation index on third formulas included in the category of very slight (negligible).

Keywords: gel, castor leaves, burns, physical stability, rabbit