

ABSTRAK

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Program Studi : Farmasi

Judul : Formulasi dan Uji Efektivitas Luka Bakar Emulgel Ekstrak

Kental Etanol Daun Singkong (*Manihot esculenta* Crantz)

Daun singkong mengandung banyak karbhidrat, lemak, zat besi, fosfor, kalsium, dan air, flavonoid, saponin, dan tannin yang dapat memberikan efek pada penyembuhan luka. Tujuan dalam penelitian ini adalah untuk mengetahui efektivitas emulgel ekstrak kental etanol daun singkong dalam mengobati luka bakar pada kulit punggung mencit jantan. Penelitian dilakukan dengan cara membuat ekstrak kental etanol daun singkong secara maserasi menggunakan etanol 70%, maserat diuapkan di *rotary evaporator* pada suhu 40°C, kemudian dievaluasi dan dibuat emulgel dengan konsentrasi 0%, 2%, 4% dan 8%. Evaluasi yang dilakukan terhadap emulgel antara lain: organoleptik, viskositas, pH, homogenitas, sentrifugasi, dan uji efektivitas. Emulgel yang dibuat berbentuk kental, berwarna hijau muda sampai hijau pekat, berbau khas daun singkong, viskositas antara 114.400-18.400cps, memiliki pH 6 sesuai pH kulit. Uji efektivitas dilakukan dengan mengamati penurunan diameter luka pada mencit yang telah dilukai luka bakar dengan diameter 1 cm selama 14 hari. Hasil menunjukkan bahwa Pemberian Emulgel ekstrak kental etanol daun singkong memiliki efek dalam mengobati luka bakar pada kulit punggung mencit jantan. Presentasi terbaik dapat dilihat dari presentase penyembuhan luka bakar yaitu konsentrasi Formula III (69,2%) karena telah memberikan efek penyembuhan dan semakin meningkat konsentrasi yang terkandung menunjukkan semakin efektif dan semakin cepat penyembuhan.

Kata kunci:

Daun singkong (*Manihot esculenta* Crantz), Emulgel, Luka Bakar

ABSTRACT

Name : Oktavia Intan Indriaswari
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Title : Formulation And Test Effectiveness Of Fuel Emulgel Extract
Of Ethanol Extract Of Cassava Leaves (*Manihot esculenta* Crantz)

Cassava leaves contain lots of carbohydrates, fats, iron, phosphorus, calcium, and water, flavonoids, saponins, and tannins that can have an effect on wound healing. The purpose of this study was to determine the effectiveness of thick cassava leaves ethanol extract emulgel in treating burns on the back skins of male mice. The research was conducted by making maceration of thick cassava leaves ethanol by maceration using 70% ethanol, the maserat was evaporated in a rotary evaporator at 40° C, then evaluated and made an emulgel with concentrations of 0%, 2%, 4% and 8%. Evaluations made on the emulgel include: organoleptic, viscosity, pH, homogeneity, centrifugation, and effectiveness test. Emulgel is made in the form of thick, light green to dark green, distinctive smell of cassava leaves, viscosity between 114,400-18,400cps, has a pH of 6 according to the pH of the skin. The effectiveness test was carried out by observing the decrease in wound diameter in mice that had been injured by burns with a diameter of 1 cm for 14 days. The results showed that the administration of thick ethanol extract of Emulgel cassava leaves had an effect in treating burns on the skin of the backs of male mice. The best presentation can be seen from the percentage of burn healing that is the concentration of Formula III (69,2%) because it has a healing effect and the increasing concentration contained shows the more effective and faster healing.

Keywords :

Cassava leaves (*Manihot esculenta* Crantz), Emulgel, Burns