

Uji manfaat emulgel ekstrak etanol daun benalu mangga (*Dendrophthoe curvata* Blume. Miq) sebagai bahan pencerah kulit =
Efficacy study of emulgel of ethanol extract from mango mistletoe leaves (*Dendrophthoe curvata*) as whitening agent

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Abstrak

Daun benalu mangga telah diketahui mampu memiliki aktivitas antioksidan, namun belum diketahui potensinya sebagai penghambat tirosinase. Aktivitas antioksidan berpotensi sebagai penghambat tirosinase yang berguna untuk menghambat terbentuknya melanin di dalam kulit. Penelitian ini bertujuan untuk memperoleh aktivitas penghambatan tirosinase dan manfaat dari sediaan emulgel ekstrak etanol daun benalu mangga. Metode yang digunakan adalah DPPH (1,1-difenildipikrilhidrazil) untuk mengetahui aktivitas antioksidan dan Dopakrom untuk mengetahui penghambatan terhadap enzim tirosinase. Parameter adanya aktivitas yang dimiliki ekstrak ditunjukkan oleh nilai IC₅₀ dan persentase inhibisi. Ekstrak etanol daun benalu mangga dibuat sediaan emulgel dengan konsentrasi 0,5%. Uji stabilitas fisik sediaan emulgel dilakukan selama 12 minggu dan uji keamanan kepada sukarelawan menggunakan metode uji tempel. Uji manfaat dilakukan selama 28 hari pada daerah lengan bawah dengan parameter indeks melanin kulit. Hasil ekstraksi menunjukkan ekstrak etanol daun benalu mangga memiliki rendemen 59,89%. Pengujian terhadap aktivitas antioksidan dan inhibitor tirosinase masing-masing memiliki nilai IC₅₀ sebesar 31,41 µg/mL dan 722,73 µg/mL. Sediaan emulgel ekstrak etanol daun benalu mangga belum menunjukkan kestabilan selama 12 minggu, namun hasil uji keamanan tidak menimbulkan iritasi sehingga aman digunakan secara topikal. Hasil uji manfaat menunjukkan sediaan emulgel ekstrak daun benalu mangga belum mampu mencerahkan kulit secara signifikan dalam waktu 28 hari.

.....Mango mistletoe leaves ethanol extract has been known have antioxidant activity, but it has not known as a potential inhibitor of tyrosinase. The antioxidant activity can be potentially useful as tyrosinase inhibitors to inhibit the melanin in the skin. The aims of the study is to obtain tyrosinase inhibitor activity and to get the benefits of mango mistletoe leaves ethanol extract emulgel. The method used was DPPH (1,1-diphenyldipikrilhidrazil) to determine the antioxidant activity and Dopakrom to determine the inhibition of the enzyme tyrosinase. The parameters of the activity shown by the extracts possessed IC₅₀ values and the percentage of inhibition. The concentration of emulgel from mango mistletoe leaves ethanol extract was 0.5%. Physical stability test of emulgel performed for 12 weeks and safety test to volunteers was using a patch test method. Efficacy test conducted for 28 days in the area of the forearm with skin melanin index as the parameter. Extraction results showed mango mistletoe leaves ethanol extract has a yield about 59.89%. The test result of

antioxidant activity and tyrosinase inhibitors based on IC₅₀ values are 31.41 µg/mL and 722.73 µg/mL. Emulgel of mango mistletoe leaves ethanol extract has yet stable for 12 weeks, however the results of safety test showed that there was no irritation on the skin so it was safe to use topically. The efficacy test results demonstrated the benefits of emulgel of mango mistletoe leaves ethanol extract has not been able to lighten skin significantly within 28 days.