INTISARI

AULIYA, DF., 2020. POTENSI DAN STABILITAS EMULGEL EKSTRAK ETANOL DAUN STROBERI (*Fragaria x ananassa var duchesne*) SEBAGAI TABIR SURYA, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Ekstrak daun stroberi (*Fragaria x ananassa var duchesne*) dilaporkan memiliki aktivitas tabir surya yang baik. Formulasi sediaan yang baik menjadi hal yang diperlukan untuk tahapan berikutnya. Tujuan penelitian ini adalah memformulasikan tabir surya emulgel ekstrak etanol daun stroberi dengan uji mutu fisik, uji stabilitas, dan uji nilai SPF.

Daun stroberi diekstraksi dengan metode refluks menggunakan pelarut etanol 96%. Ekstrak dianalisis kandungan kimia dengan KLT. Sediaan emulgel diformulasikan dengan konsentrasi ekstrak 0,25% ; 0,50% dan 1%. Sediaan di uji mutu fisik, stabilitas, dan aktivitas tabir surya secara *in vitro* dengan spektrofotometri UV-Vis dan *in vivo* pada kulit manusia.

Hasil penelitian didapatkan rendemen ekstrak daun stroberi sebanyak 20,5%, uji KLT menunjukan positif mengandung flavonoid dan tanin. Formula emulgel yang memiliki efektivitas sebagai tabir paling baik adalah formula dengan konsentrasi ekstrak 1% dengan nilai SPF 59,94.

Kata kunci : daun stroberi, emulgel, tabir surya

ABSTRACT

AULIYA, DF., 2020. POTENCY AND STABILITY EMULGEL OF ETHANOL EXTRACT STRAWBERRY LEAF (*Fragaria x ananassa var duchesne*) AS A SUNSCREEN, THESIS, FACULTY OF PHARMACEUTICAL, SETIA BUDI UNIVERSITY, SURAKARTA.

Strawberry leaf extract (Fragaria x ananassa var Duchesne) was reported to have good sunscreen activity. A good dosage formulation is necessary for the next stage. The purpose of this study was to formulate emulgel from the ethanol extract of strawberry leaves using physical quality tests, stability tests, and SPF value test.

The strawberry leaves were extracted by the reflux method using 96% ethanol as solvent. The extract was analyzed for chemical content by TLC. The emulgel preparation is formulated with a concentration of 0,25%; 0,50% and 1%. The preparations were tested for physical quality, stability, and sunscreen activity using in vitro and in vivo. In vitro test using UV-Vis spectrophotometry and in vivo with experiments on human skin.

The results showed that the yield of ethanol extract of strawberry leaves was 20,5% and the TLC test showed positive content of flavonoids and tannins. The emulgel formula had the best effectiveness as a barrier was formula with an extract concentration of 1%. The 1% ethanol extract concentration of strawberry leaves an emulgel resulted in SPF value of 59,94 ± 0,260.

Keyword: emulgel, strawberry leaves, sunscreen