ABSTRAK

Alfurida, Auril. 2021. *Mutu Fisik dan Nilai SPF (Sun Protection Factor) Sediaan Krim Ekstrak Temugiring (Curcuma heyneana).* Karya Tulis Ilmiah. Akademi Farmasi Putra Indonesia Malang. Pembimbing : Anisa Lailatusy Syarifah, M.Si.

Kata Kunci : Temugiring, Krim, Mutu Fisik, SPF

Temugiring mengandung senyawa fitokimia antara lain kurkumin, tanin, dan flavonoid yang diketahui mempunyai khasiat sebagai tabir surya. Penelitian ini bertujuan untuk mengetahui mutu fisik dan nilai SPF krim ekstrak temugiring. Ekstrak temugiring diperoleh melalui metode maserasi dengan pelarut etanol 96%. Konsentrasi ekstrak temugiring adalah 5%, 7,5%, dan 10%. Evaluasi krim meliputi mutu fisik dan nilai SPF. Penentuan nilai SPF menggunakan metode spektrofotometri UV-Vis. Hasil penelitian menunjukkan bahwa krim ekstrak temugiring memenuhi persyaratan standar mutu fisik sebagai tabir surya yang baik. Nilai SPF krim ekstrak temugiring ialah 1,869 ; 1,977; dan 2,807. F1 dan F2 tidak memenuhi syarat sebagai tabir surya namun untuk F3 memiliki aktivitas tabir surya kategori proteksi minimal. Data statistik menunjukkan nilai sig yaitu 0,00 (< 0,05) yang mengindikasikan bahwa adanya pengaruh penambahan konsentrasi ekstrak temugiring terhadap nilai SPF krim.

ABSTRACT

Auril Alfurida, 2021, *Physical Quality and SPF (Sun Protection Factor) Value of Temugiring (Curcuma heyneana) Extract Cream Formulation.* Scientific papers. Akademi Farmasi Putra Indonesia Malang. Supervisor: Anisa Lailatusy Syarifah, M.Si.

Keywords: *Curcuma heyneana*, cream, physical quality, *temugiring*, SPF

Temugiring (*Curcuma heyneana)* contains phytochemical compounds including curcumin, tannins, and flavonoids which are known to have properties as sunscreen. The aims of this research were to determine the physical quality and SPF value of *temugiring* cream extract. *Temugiring* extract was obtained by maceration method with ethanol 96% as solvent. The concentration of the *temugiring* extract was 5%, 7.5%, and 10%. Cream evaluation included physical quality and SPF value. In addition, the determination of SPF value was conducted using the UV-Vis spectrophotometry method. The results identified that the *temugirin*g extract cream fulfilled the physical quality standards as a good sunscreen. The SPF value of the *temugiring* extract cream was 1.869; 1,977; and 2,807. F1 and F2 did not qualify as sunscreens; however, F3 had sunscreen activity in the minimum protection category. The results of statistical analysis of the data showed a sig value of 0.00 (< 0.05) which indicated that the concentration of t*emugiring* extract had an effect on the SPF value of the cream.