**PENENTUAN NILAI SPF SEDIAAN GEL TABIR SURYA DARI EKSTRAK KULIT DAN BIJI KACANG TANAH (*Arachis hypogaea* L.)**

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**ABSTRAK**

Ekstrak kulit dan biji kacang tanah diformulasikan dalam bentuk sediaan gel. Penelitian ini bertujuan untuk mengetahui ekstrak kulit dan biji kacang tanah dapat diformulasikan menjadi sediaan gel tabir surya, menentukan persyaratan mutu fisik dan potensi sediaan tabir surya.

Penelitian dilakukan secara eksperimental. Dimana, ekstrak kulit dan biji kacang tanah diformulasi dalam bentuk sediaan gel tabir surya dengan masing-masing konsentrasi 10%. Evaluasi mutu fisik meliputi uji organoleptis, homogenitas, pH, daya sebar, daya lekat dan viskositas dengan kestabilan gel sebelum dan sesudah *cycling test* serta penentuan nilai SPF (*Sun Protection Factor*) menggunakan spektrofotometri UV-Vis.

Hasil penelitian menunjukkan bahwa sediaan secara keseluruhan stabil sebelum dan setelah dilakukan *cycling test* dimana sediaan yang dihasilkan berupa gel dengan coklat tua dan merah bata, bau khas, bentuk kental, homogen, pH 7,2-7,6, viskositas 13.141-31.331 cpoises, daya sebar 3,075-3,98 cm, daya lekat 3,02-6,22 detik. Hasil nilai SPF yang diperoleh untuk sediaan gel tabir surya dari ekstrak kulit kacang tanah yaitu 27,286 dan nilai SPF gel tabir surya dari ekstrak biji kacang tanah adalah 24,261 termasuk dalam ultra. Hasil analisis menyimpulkan ekstrak kulit dan biji kacang tanah dapat diformulasikan sebagai sediaan gel tabir surya dan memenuhi persyaratan mutu fisik. Nilai SPF tertinggi terdapat pada sediaan gel tabir surya ekstrak kulit kacang tanah yaitu 27,286 termasuk kedalam proteksi ultra.

**Kata kunci:** *Kacang tanah, Gel, Tabir Surya, Nilai SPF*

***SPF VALUE DETERMINATION OF SUNSCREEN GEL PREPARATIN OF PEANUT SKIN AND PEANUT SEED EXTRACT (Arachis hypogaea L.)***

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***ABSTRACT***

*Peanut skin and peanut seed extracts are formulated in gel form. The objective of reserach was to determine the peanut skin and peanut seed extracts can be formulated into sunscreen gel preparations, determine the physical quality requirements and the potential of sunscreen preparations.*

*The research was conducted experimentally. Where, peanut skin and peanut seed extracts are formulated in the form of sunscreen gel with a concentration of 10% each. Evaluation of physical quality included organoleptic, homogeneity, pH, dispersion, adhesion and viscosity tests with gel stability before and after cycling test and determination of SPF (Sun Protection Factor) values using UV-Vis spectrophotometry.*

*The results showed that the overall preparation was stable before and after the cycling test where the resulting preparations were gel with dark brown and brick red, characteristic odor, viscous shape, homogeneous, pH 7.2-7.6, viscosity 13.141-31.331 cpoises, spread power of 3.075-3.98 cm, adhesion of 3.02-6.22 seconds.*

*The SPF value obtained for the preparation of sunscreen gel from peanut skin extract was 27.286 and the SPF value of sunscreen gel from peanut seed extract was 24.261 included in ultra. The result of the analysis concluded that peanut skin and peanut seed extracts can be formulated as sunscreen gel preparations and meet physical quality requirements. The highest SPF value was found in the preparation of sunscreen gel which was 27,286 which included in the ultra protection.*

***Keywords:*** *Peanut, Gel, Sunscreen, SPF Value*