**PENENTUAN NILAI SPF (*Sun Protection Factor*)EKSTRAK KULIT dan RAMBUT JAGUNG(*Zea mays* L.*)***

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**ABSTRAK**

*Zea mays* L. adalah tanaman yang banyak dibudidayakan di Indonesia.Pada tanaman jagung memiliki kandungan kimia antara lain alkaloid, saponin, tanin, flavonoid, fenol, steroid, glikosida, protein dan mineral.Senyawa golongan flavonoid yang terdapat dalam tanaman jagung mempunyai potensi sebagai tabir surya.Berdasarkan hal tersebut maka penelitian ini bertujuan untuk melihat nilai SPF dari ekstrak kulit dan rambut jagung.

Penelitian ini adalah penelitian jenis eksperimental yang bertujuan untuk melihat nilai SPF dari ekstrak kulit dan rambut jagung dengan menggunakan parameter-parameter, seperti karakterisasi simplisia, skrining fitokimia, penentuan senyawa flavonoid menggunakan spektrofotometer infra merah dan penentuan nilai SPF menggunakan spektrofotometer UV-Visible.

Hasil karakterisasi ekstrak etanol kulit dan rambut jagung memiliki kadar air 7,33% ± 10% dan 5,33% ±10%, kadar sari larut dalam air 2,69% ± 7% dan 6,18% ± 7%, kadar sari larut dalam etanol 2,69% ± 0,5% dan 3,97% ± 0,5%, kadar abu total 1,55% ± 5% dan 3,86% ± 5%, kadar abu larut asam 0,21% ± 1% dan 0,51% ± 1%. Uji skrining fitokimia ekstrak kulit dan rambut jagung memiliki alkaloid, flavonoid, saponin, tanin dan triterpenoid/steroid.Ekstrak kulit dan rambut jagung identik flavonoid dengan gugus C-H aromatik dan gugus OH. Pada pengujian SPFkulit jagung nilai tertinggi konsentrasi 6000 ppm sebesar 44,15. Nilai SPF rambut jagung 4500 ppm sebesar 46,87. Pada hasil penelitian menunjukkan semakin tinggi konsentrrasi yang dilakukan maka semakin tinggi nilai SPF yang didapatkan.Pada penelitian ini disimpulkan bahwa ekstrak etanol kulit dan rambut jagung (*Zea mays* L.) memiliki nilai SPF proteksi ultra sehingga sangat berpotensi sebagai tabir surya.

**Kata kunci:*Ekstrak, Spektrofotometer UV-Vis, SPF dan Zea mays* L.**

**SPF *(Sun Protection Factor)* VALUE DETERMINATION EXTRACT SKINAND CORN HAIR *(Zea mays*. L)**

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 **ABSTRACT**
 Zea mays L. is a plant that is widely cultivated in Indonesia. In corn plants have chemical contents including alkaloids, saponins, tannins, flavonoids, phenols, steroids, glycosides, proteins and minerals. Flavonoid compounds found in corn plants have the potential as a sunscreen.Based on this, this study aims to see the SPF value of the skin extract and corn silk.

 This research is an experimental type of research that aims to see the SPF value of skin extracts and corn silk using parameters, such as simplicia characterization, phytochemical screening, determination of flavonoid compounds using infrared spectrophotometers and determination of SPF values ​​using UV-Visible spectrophotometer.

 The results of the characterization of ethanol extract of skin and corn hair have a moisture content of 7.33% ± 10% and 5.33% ±10%, water soluble extracts 2.69% ± 7% and 6.18% ± 7%, extracts soluble in ethanol 2.69% ± 0.5% and 3.97% ± 0.5%, total ash content 1.55% ± 5% and 3.86% ± 5%, acid soluble ash content 0.21% ± 1% and 0.51% ± 1%. Phytochemical screening tests of skin extracts and corn silk have alkaloids, flavonoids, saponins, tannins and triterpenoids / steroids. Corn skin and hair extracts are identical flavonoids with aromatic C-H groups and OH groups. In the SPF testing of corn husk the highest value of 6000 ppm concentration was 44.15. SPF value of 4500 ppm corn silk of 46.87. The results showed that the higher the concentration, the higher the SPF value obtained. In this study it was concluded that the ethanol extractof the skin and corn silk (Zea mays L.) has an SPF value of ultra protection so that it has the potential to be a sunscreen.

**Keywords: *Extracts, UV-Vis Spectrophotometer, SPF and Zea mays L.***