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## **FORMULASI DAN EVALUASI SIFAT FISIK SHAMPO EKSTRAK DAGING LABU KUNING (*Cucurbita moschata* Duch.)**

### **ABSTRAK**

**Latar Belakang :** Labu kuning mengandung senyawa metabolit flavonoid yang diduga dapat mencegah rambut rontok dan memperbaiki sel-sel rambut yang rusak. Untuk itu perlu diformulasikan dalam sediaan shampo. Penelitian ini bertujuan untuk mengevaluasi shampo ekstrak daging labu kuning serta sifat fisiknya

**Metode :** Penelitian ini menggunakan metode eksperimental laboratorium. Sampel yaitu shampo dengan variasi konsentrasi ekstrak sebesar 1% (F1), 5% (F2), 10% (F3), dan 0% (F-). Evaluasi sifat fisik meliputi evaluasi organoleptis, homogenitas, pH, viskositas, tinggi busa, dan stabilitas. Data diuji secara statistik menggunakan *one-way anova*

**Hasil :** Berdasarkan hasil pengujian, shampo secara organoleptis memiliki bentuk cair, berwarna bening (F-), kuning bening (F1), jingga bening (F2), dan jingga (F3), berbau mentol serta khas labu. Shampo dinyatakan homogen jika tidak terdapat partikel-partikel kasar pada hasil evaluasi. Nilai pH yaitu  $5,73 \pm 0,025 - 6,33 \pm 0,015$ . Nilai viskositas yaitu  $1130 \pm 45,83 - 11440 \pm 150,9$  cps. Nilai tinggi busa yaitu  $7,3 \pm 0,252 - 11,4 \pm 0,208$  cm. Hasil uji *one-way anova* diperoleh nilai signifikansi  $0,000 < 0,05$ . Formula shampo yang dibuat stabil selama 14 hari penyimpanan pada suhu kamar dan uji *cycling test*

**Simpulan :** Sediaan shampo dengan variasi konsentrasi ekstrak (0%,1%,5%) memiliki sifat fisik yang memenuhi syarat, untuk konsentrasi 10% tidak memenuhi sifat fisik. Semua formulasi shampo ekstrak labu kuning dinyatakan stabil.

**Kata Kunci :** shampo, labu kuning, sifat fisik

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## **FORMULATION AND EVALUATION OF PHYSICAL PROPERTIES OF PUMPKIN (*Cucurbita moschata* Duch.) EXTRACT SHAMPO**

### **ABSTRACT**

**Background :** Pumpkin contains flavonoid metabolite compounds that are thought to be able to prevent hair loss and repair damaged hair cells. For that, it needs to be formulated in shampoo preparations. This study aims to evaluate the pumpkin extract shampoo and its physical properties

**Methods :** This study used an laboratory experimental method. Sample is shampoo with various extract concentrations of 1% (F1), 5% (F2), 10% (F3), and 0% (F-). Evaluation of physical properties includes organoleptic evaluation, homogeneity, pH, viscosity, foam height, and stability. Data analysis using one-way anova

**Results :** Based on the test results, shampoo on organoleptically had a liquid form, have a clear white color (F-) clear yellow (F1) clear orange (F2) orange (F3), smells of menthol and typical of pumkin. Shampoo is homogeneous there are no coarse particles in the evaluation. The pH values is  $5.73\pm 0.025$ - $6.33\pm 0.015$ . The viscosity value is  $1130\pm 45.83$ - $11440\pm 150.9$  cps. The foam height value is  $7.3\pm 0.252$ - $11.4\pm 0.208$  cm. The results of the one-way ANOVA test obtained a significance value of  $0.000 < 0.05$ . The formula has stability during storage and cycling test

**Conclusion :** Shampoo preparations with various extract concentrations (0%, 1%, 5%) have physical properties that meet the requirements, viscosity requirements are not met at the 10% physical properties. All formulations of pumpkin extract shampoo were declared stable

**Keywords :** shampoo, pumpkin, physical properties