

**UJI EVALUASI FISIK SEDIAAN SERUM WAJAH EKSTRAK ETANOL
KULIT BUAH MARKISA UNGU
(*Passiflora Edulis Sims*)**

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ABSTRAK

Pendahuluan : Serum wajah merupakan cairan sedikit kental yang mengandung bahan aktif yang digunakan untuk merawat kulit. Ekstrak kulit buah markisa ungu terbukti mengandung flavonoid dan tanin yang memiliki aktivitas antibakteri penyebab jerawat. Oleh sebab itu perlu dilakukan uji coba formula (F) serum wajah dengan komposisi ekstrak etanol kulit buah markisa ungu, niasinamida, *carboxymethylcellulose natrium*, dan aquadest. Perbedaan konsentrasi hanya pada ekstrak etanol kulit buah markisa ungu yaitu 4%, 5%, dan 6%. **Metode:** Jenis penelitian ini adalah kuantitatif dengan desain pre eksperimental. Uji skrining fitokimia dilakukan pada ada atau tidaknya flavonoid dan tanin. Uji stabilitas fisik dilakukan dengan uji organoleptik, homogenitas, pH, dan viskositas selama 30 hari penyimpanan. Analisis data dilakukan dengan uji deskriptif. **Hasil:** Uji skrining fitokimia pada uji flavonoid positif dan tanin diapati positif. Uji stabilitas fisik hanya menghasilkan kestabilan sampai hari ke-5, dimana uji organoleptik tidak terjadi perubahan warna dan bau, pada F1 berwarna kuning pucat, F2 berwarna kuning, dan F3 berwarna kuning gelap dan memiliki aroma khas ekstrak. Hasil uji pH pada F1 4% (6,22-6,28), pada F2 5% (5,93-6,28), dan F3 6% (5,41-5,82). Pada uji viskositas F1 4% (1.833-5.667 cP), F2 5% (3.333-8.000 cP), dan F3 6% (4.167-12.000 cP). Pada uji homogenitas untuk ketiga formula menunjukkan hasil yang homogen. **Kesimpulan:** Penelitian ini tidak terdapat formula terbaik dikarenakan pada saat pengujian stabilitas selama 5 hari penyimpanan viskositas mengalami penurunan dengan persentase penurunan sebesar F1 67%, F2 58% dan F3 65% sehingga sediaan menjadi cair dan tidak stabil.

Kata kunci : Ekstrak kulit buah markisa ungu: *Passiflora eduli Sims*: Serum Wajah : Uji Stabilitas Fisik

**PHYSICAL EVALUATION TEST OF SERUM FACIAL ETHANOL
EXTRACTS OF PURPLE MARKISA FRUIT SKINS
(*Passiflora Edulis Sims*)**

ABSTRACT

Introduction : Facial serum is a slightly viscous liquid that contains active ingredients that are used to treat the skin. Purple passion fruit peel extract is proven to contain flavonoids and tannins which have antibacterial activity that causes acne. Therefore, it is necessary to test the formula (F) of facial serum with the composition of ethanol extract of purple passion fruit peel, niacinamide, carboxymethylcellulose sodium, and distilled water. The difference in concentration was only in the ethanol extract of purple passion fruit peel, namely 4%, 5% and 6%. **Methods:** This type of research is quantitative with a pre-experimental design. Phytochemical screening test was carried out on the presence or absence of flavonoids and tannins. Physical stability tests were carried out by organoleptic, homogeneity, pH and viscosity tests for 30 days of storage. Data analysis was performed with a descriptive test. **Results:** The phytochemical screening test on the flavonoid test was positive and the tannins were found to be positive. The results of the physical stability test only yielded stability until the 5th day, where the organoleptic test did not change color and smell, F1 was pale yellow, F2 was yellow, and F3 was dark yellow and had a distinctive aroma of the extract. pH test results at F1 4% (6.22-6.28), at F2 5% (5.93-6.28), and F3 6% (5.41-5.82). In the viscosity test F1 4% (1.833-5.667 cP), F2 5% (3.333-8.000 cP), and F3 6% (4.167-12.000 cP). In the homogeneity test for the three formulas showed homogeneous results. **Conclusion:** This study did not find best formula because during stability testing for 5 days of storage, the viscosity decreased with a percentage decrease of 67% F1, 58% F2 and 65% F3 so that the preparation became liquid and unstable.

Keywords : Facial serum: purple passion fruit peel extract: Physical Stability Test: *Passiflora edulis sims*