

INTISARI

MARIANTI, 2021, FORMULASI DAN UJI AKTIVITAS ANTIJAMUR HAIR TONIC EKSTRAK SELEDRI (*Apium graveolens* L.) TERHADAP JAMUR *Candida albicans* PENYEBAB KETOMBE, SKRIPSI. FAKULTAS FARMASI. UNIVERSITAS SETIA BUDI, SURAKARTA

Herba seledri (*Apium graveolens* L.) mengandung alkaloid, flavonoid, tannin, dan saponin yang memiliki aktivitas antijamur. Pada penelitian ini ekstrak seledri diformulasikan menjadi *hair tonic* untuk mengatasi ketombe yang disebabkan oleh jamur *Candida albicans*. Penelitian ini bertujuan untuk mengetahui sifat fisik sediaan *hair tonic*, aktivitas *hair tonic* sebagai antijamur, dan mengetahui formula baik

Herba seledri diekstraksi dengan metode maserasi menggunakan pelarut etanol 70%. Sediaan *hair tonic* diformulasi menjadi empat formula dengan variasi konsentrasi ekstrak 6%, 8%, 10% dan 12%. Sediaan *hair tonic* selanjutnya di uji organoleptis, pH, viskositas, bobot jenis, dan aktivitas antijamur terhadap *Candida albicans*. Data yang dihasilkan selanjutnya dianalisis menggunakan aplikasi SPSS dengan uji *One Way ANOVA*.

Sediaan *hair tonic* dengan konsentrasi ekstrak 6%, 8%, 10%, dan 12% memiliki mutu fisik yang baik karena semua formula memenuhi syarat uji pH, bobot jenis, dan viskositas. Penambahan ekstrak dapat meningkatkan pH, bobot jenis, dan viskositas. *Hair tonic* ekstrak seledri memiliki aktivitas antijamur dengan konsentrasi ekstrak 6%, 8%, 10%, dan 12% berturut-turut menghasilkan zona hambat sebesar 11 mm; 14,5 mm; 18,9 mm; dan 23,2 mm. Sediaan *hair tonic* dengan konsentrasi ekstrak 12% memiliki aktivitas antijamur *Candida albicans* paling kuat.

Kata kunci: *Apium graveolens* L, *Hair tonic*, *Candida albicans*

ABSTRACT

MARIANTI, 2021, FORMULATION OF CELERY (*Apium graveolens* L.) HAIR TONIC EXTRACT AGAINST *Candida albicans* FUNGUS CAUSES DANDRUFF AND THEIR ACTIVITIES AS ANTIFUNGAL. THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Celery herb (*Apium graveolens* L.) a natural substance which is containing antifungal compound namely, flavonoid, tannin, alkaloid, and saponin. In this research celery herb is formulated as antifungal hair tonic. The purpose of this research was to know the physical properties of hair tonic celery extract, their activities as antifungal against *Candida albicans* fungus, and the best formulation of celery hair tonic extract.

Celery herb was extracted by maserasi method with ethanol solvent. The preparation of hair tonic with four formula was made, each formula contains different concentration of extract (*Apium graveolens* L. leaf ethanol extract) which is, 6%, 8%, 10%, 12%. After that the organoleptic, pH, viscosity. Density of hair tonic were evaluated, also their activities as antifungal against *Candida albicans*. The data was analyzed by SPSS application with one way ANOVA test.

Hair tonic preparations with extract concentrations of 6%, 8%, 10%, and 12% have good physical quality because all formulas meet the requirements of pH, density, and viscosity tests. Addition of extracts can increase pH, density, and viscosity. The diameter of inhibitory zone of formulation of 6% concentration extract was 11mm, which the formulation of 8% concentration extract was 14.5mm, the formulation of 10% concentration extract was 18.9mm, and the formulation of 12% concentration extract was 23.2mm.

Keywords: *Apium graveolens* L, *Hair tonic*, *Candida albicans*