

ABSTRAK

Rizki Amalia. 2025. Formulasi, Evaluasi dan Uji Aktivitas Antiketombe Sediaan *Hair tonic* Ekstrak Bunga Telang (*Clitoria ternatea* L). Skripsi. Program Studi Farmasi, Fakultas Ilmu Kesehatan dan Sains, Universitas PGRI Madiun. Pembimbing (I) Dr. Drh. Cicilia Novi Primiani, M.Pd., Pembimbing (II) apt. Weka Sidha Bhagawan, M. Farm.

Rambut memiliki fungsi, sebagai mahkota, penghangat, perlindungan & jenis keindahan yang dimiliki manusia. Salah satu alternatif pencegahan & pengobatan kerontokan rambut & ketombe yaitu menggunakan sediaan topical *hair tonic* yang mengandung ekstrak bunga telang (*Clitoria ternatea* L). Tujuan penelitian ini untuk mengetahui kandungan senyawa aktif, mengevaluasi karakteristik fisik, serta menguji aktivitas antiketombe sediaan *hair tonic* ekstrak bunga telang. Metode penelitian yang digunakan ialah kuantitatif *experimental laboratory*, pembuatan ekstrak menggunakan metode remaserasi dengan pelarut etanol 96%. Sediaan *hair tonic* diformulasi dalam 4 variasi konsentrasi ekstrak: F0 (0%), F1(5%), F2 (10%), dan F3 (15%), pembandingnya menggunakan kontrol negatif (K-) yaitu DMSO 10% dan kontrol positif (K+) yaitu produk pasaran yang mengandung piroctone olamine 2%. Uji karakteristik fisik meliputi homogenitas, pH, viskositas, berat jenis dan organoleptisnya. Aktivitas antiketombe diuji menggunakan metode difusi cakram terhadap jamur *Candida albicans* pada media SDA. Hasilnya menunjukkan seluruh formula memenuhi parameter karakteristik fisik yang baik. Zona hambat terbesar ditunjukkan oleh F3 (15%) dengan diameter 9,92 mm, diikuti F2 diameter 9,72 mm dan F1 diameter 8,43 mm, yang tergolong aktivitas antijamur sedang. Berdasarkan hasil, formula F3 ditetapkan sebagai formula optimum karena memiliki karakteristik fisik yang stabil, diterima secara organoleptis, dan menunjukkan aktivitas antiketombe paling efektif. Sediaan *Hair tonic* ekstrak bunga telang berpotensi menjadi produk kosmetik alami yang aman & efektif.

Kata kunci: *Hair tonic*, bunga telang (*Clitoria ternatea* L.), antijamur, *Candida albicans*, ketombe dan kerontokan rambut

ABSTRACT

Rizki Amalia. 2025. Formulation, Evaluation, and Anti-Dandruff Activity Test of *Hair tonic* Preparation from Butterfly Pea Flower Extract (*Clitoria ternatea* L). Thesis. Study Program of Pharmacy, Faculty of Health and Science, PGRI University of Madiun. Advisor (I) Dr. Drh. Cicilia Novi Primiani, M.Pd., Advisor (II) apt. Weka Sidha Bhagawan, M. Farm.

Hair has a function, as a crown, warmth, protection & a type of beauty that humans have. One alternative for preventing & treating hair loss & dandruff is using a topical hair tonic preparation containing butterfly pea flower extract (*Clitoria ternatea* L). The purpose of this study was to determine the active compound content, evaluate the physical characteristics, and test anti-dandruff activity of the butterfly pea flower extract hair tonic preparation. The research method used was a quantitative *experimental laboratory*, extract preparation using the remaceration method with 96% ethanol solvent. The *hair tonic* preparation was formulated in 4 variations of extract concentration: F0 (0%), F1 (5%), F2 (10%), and F3 (15%), the comparison used a negative control (K-) which was 10% DMSO and a positive control (K+) which was a market product containing 2% piroctone olamine. Physical characteristic tests included homogeneity, pH, viscosity, specific gravity and organoleptic. Anti-dandruff activity was tested using the disc diffusion method against *Candida albicans* fungus on SDA media. The results showed that all formulas met good physical characteristics parameters. The largest inhibition zone was shown by F3 (15%) with a diameter of 9.92 mm, followed by F2 with a diameter of 9.72 mm and F1 with a diameter of 8.43 mm, which were classified as moderate antifungal activity. Based on the results, formula F3 was determined as the optimum formula because it had stable physical characteristics, was organoleptically acceptable, and showed the most effective antidandruff activity. *Hair tonic* preparation with butterfly pea flower extract has potential to be a safe & effective natural cosmetic product.

Keywords: *Hair tonic*, butterfly pea flower (*Clitoria ternatea* L.), antifungal, *Candida albicans*, dandruff, and hair loss.