

INTISARI

ANISA, IK., 2019, UJI AKTIVITAS HAIR TONIK EKSTRAK ETANOL, FRAKSI *n*-HEKSAN, ETIL ASETAT, DAN AIR DAUN RANDU (*Ceiba pentandra* L. Gaertn) SEBAGAI PENUMBUH RAMBUT PADA KELINCI *New Zealand*, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Daun Randu (*Ceiba pentandra* L. Gaertn) mengandung senyawa flavonoid, alkaloid, fenol, saponin, triterpenoid, dan fenol yang diduga mempunyai aktivitas mempercepat pertumbuhan rambut. Ekstrak daun randu dikembangkan dalam bentuk sediaan hair tonik sehingga mudah diaplikasikan dan tidak lengket sehingga tidak meninggalkan kerak yang dapat memicu terbentuknya ketombe. Penelitian ini bertujuan untuk mengetahui aktivitas sediaan hair tonik ekstrak etanol, fraksi *n*-heksan, etil asetat, dan air dari daun randu terhadap pertumbuhan rambut kelinci *New Zealand*.

Daun randu diekstraksi dengan metode maserasi menggunakan pelarut etanol 96%, kemudian difraksinasi menggunakan pelarut *n*-heksan, etil asetat, dan air. Hasil ekstraksi dan fraksinasi dibuat sediaan hair tonik kemudian di uji mutu fisik dan aktivitas pertumbuhan rambut dengan konsentrasi ekstrak 5%, fraksi *n*-heksan 2%, fraksi etil asetat 2%, dan fraksi air 2%. Kontrol negatif digunakan basis dan sebagai kontrol positif digunakan hair tonik minoksidil 2%. Uji aktivitas pertumbuhan rambut dengan cara mengoleskan sediaan hair tonik pada punggung kelinci yang telah dicukur setiap pagi dan sore hari selama 28 hari, lalu 5 helai rambut kelinci diambil secara acak pada hari ke-7,14,21, dan 28 kemudian diukur panjangnya menggunakan jangka sorong dan pada minggu terakhir rambut dicukur dan di timbang dengan neraca analitik. Data panjang dan bobot rambut dianalisa dengan metode ANOVA *one way* dan dilanjutkan *Post Hoc Tukey*.

Hasil penelitian panjang rambut menunjukkan bahwa ekstrak 5%, fraksi *n*-heksan 2%, fraksi etil asetat 2%, dan fraksi air 2% mempunyai aktivitas mempercepat pertumbuhan rambut kelinci yang setara dengan kontrol minoksidil 2%.

Kata kunci : daun randu, hair tonik, penumbuh rambut

ABSTRACT

ANISA, IK., 2019, HAIR TONIC ACTIVITIES OF ETHANOL EXTRACTS, *n*-HEXANE, ETHYL ASETAT, AND WATER FRACTIONS OF CEIBA LEAF (*Ceiba pentandra* L. Gaertn) AS HAIR GROWTH ON *New Zealand* RABBITS, SKRIPSI, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Ceiba leaf (*Ceiba pentandra* L. Gaertn) contain flavonoid, alkaloid, phenol, saponin, and triterpenoid have activitiy to accelerate hair growth. Leaves leaf extracts are developed in the form of hair tonic preparations so that they are easy to apply and not sticky so they do not leave a crust that can trigger the formation of dandruff. The purpose of this study was to investigated the hair tonic activity of ethanolic extract, *n*-hexane, ethyl acetate, and water fraction from Ceiba leaf on *New Zealand* rabbits hair growth.

Ceiba leaf were extracted by maceration method using 96% ethanol solvent, then fractionation using *n*-hexane, ethyl acetate, and water solvents. The results of extraction and fractionation were made hair tonic preparations then tested for physical quality and hair growth activities with 5% extract concentration, 2% *n*-hexane fraction, 2% ethyl acetate fraction, and 2% water fraction. Negative control is used base and as a positive control minoxidil 2% hair tonic is used. Hair growth activity test by applying hair tonic on the back of the rabbit that has been shaved every morning and evening for 28 days, then five strands of rabbit hair were taken randomly on days 7,14,21, and 28 then measured using length shovel and in the last week the hair is shaved and weighed with an analytical balance. Hair length and weight data were analyzed by one way ANOVA method and continued Post Hoc Tukey.

The results of the study showed that hair length showed that 5% extract, 2% *n*-hexane fraction, 2% ethyl acetate fraction, and 2% water fraction have hair tonic activity of accelerating rabbit hair growth which equivalent to minoksidil control 2% seen from length of the hair.

Key word : ceiba leaf, hair tonic, hair growth