

# Uji keamanan dan uji aktivitas pertumbuhan rambut fraksi etil asetat daun mangkokan nothopanax scutellarium merr dalam sediaan tonik rambut = Safety and activity test of hair growth ethyl acetate fraction of the scutellarium leaves nothopanax scutellarium merr in hair tonic formulation

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## Abstrak

Berdasarkan penggunaan secara tradisional dan ilmiah, daun mangkokan (*Nothopanax scutellarium* Merr.) diketahui dapat mempercepat pertumbuhan rambut. Akan tetapi, penelitian yang ada menunjukkan aktivitas pertumbuhan rambut yang lebih kecil dari kontrol positif. Aktivitas pertumbuhan rambut daun mangkokan dipengaruhi oleh senyawa flavonoid.

Tujuan penelitian ini adalah mengetahui keamanan dari fraksi etil asetat daun mangkokan dan melihat efektivitas fraksi etil asetat daun mangkokan terhadap aktivitas pertumbuhan rambut dibuat dalam bentuk sediaan tonik rambut dengan konsentrasi ekstrak 0,25%; 0,5%; dan 1% yang diujikan pada kelinci. Uji keamanan diukur berdasarkan pengamatan skor dan kategori iritasi membran korio alantois. Uji stabilitas sediaan dilakukan selama 12 minggu dengan uji stabilitas dipercepat. Uji aktivitas pertumbuhan rambut dilakukan dengan meneteskan dan meratakan sediaan tonik rambut pada punggung kelinci yang dibagi menjadi 6 daerah uji dan diukur panjang rambut pada minggu ke- 1, 2, dan 3. Pada minggu ke- 3, ditimbang bobot rambut yang tumbuh disekitar daerah uji, dan diukur diameter rambut dengan SEM (Scanning Electrone Microscope).

Hasil uji keamanan menunjukkan 0,2 gram fraksi etil asetat daun mangkokan memiliki sifat mengiritasi ringan. Hasil uji stabilitas dipercepat sediaan tonik rambut dinilai memiliki stabilitas selama setahun. Hasil uji aktivitas pertumbuhan rambut menunjukkan bahwa formula II dan III dengan konsentrasi fraksi etil asetat daun mangkokan 0,5% dan 1% memiliki aktivitas pertumbuhan rambut yang paling besar dan dapat memperbesar diameter rambut.

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Based on the traditional use and previous researches, scutellarium leaves had been known can to enhance hair growth. However, existing research showed activity of hair growth smaller from the positive control. Scutellarium leaves hair growth activity influenced by flavonoid compounds.

The aims of this research were to know the ethyl acetate fraction safety and ethyl acetate fraction effectivity of scutellarium leaves toward hair growth activity in hair tonic formulation by 0.25%; 0.5%; and 1% fraction concentration that had been tested in rabbits. Safety test measured by scoring and cathegorizing irritation within chorioallantois membrane. Stability formulation test had been done for 12 weeks with accelerated stability test. Hair growth activity test had been done by dropping and rubbing hair tonic formulation on the back of the rabbits which classified to 6 areas testing and the length of hair is measured in 1st, 2nd and 3th week. In the 3th week, the weight of rabbits hair growth in the areas testing is weighed

and hair diameter also measured by SEM (Scanning Electrone Microscope) method.

The result of safety test showed that 0.2 gram of ethyl acetate fraction of scutellarium leaves have mild irritation effect. The result of hair tonic accelerated stability test has stability during a year. The result of hair growth activity test showed that the 0.5% and 1% concentration of formulation had more faster hair growth and also enlarging hair diameter.