Uji aktivitas pertumbuhan rambut stabilitas fisik dan keamanan sediaan hair tonic yang mengandung ekstrak etanol akar manis (Glycyrrhiza glabra Linn.) = Hair growth activity physical stability and safety tests study hair tonic preparations containing ethanol extract of liquorice (Glycyrrhiza glabra Linn.)

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Abstrak

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Kerontokan rambut yang sering diakhiri kebotakan merupakan problema estetik yang sangat dikhawatirkan setiap orang. Akar rimpang tanaman akar manis telah diakui memiliki aktivitas pertumbuhan rambut berdasarkan penggunaan tradisional. Pada penelitian ini, 2,5%, 5% dan 10% ekstrak akar manis diformulasikan dalam bentuk hair tonic karena penggunaannya lebih mudah dan tidak lengket seperti sediaan semisolid. Tujuan penelitian ini adalah untuk mengetahui aktivitas pertumbuhan rambut ekstrak etanol akar manis, stabilitas fisik dan keamanannya. Uji aktivitas pertumbuhan rambut dilakukan dengan mengoleskan sediaan hair tonic pada punggung kelinci dan diukur panjang rambut, ketebalan rambut (diameter rambut), bobot rambut dan kelebatan rambut. Uji stabilitas fisik dilakukan pada penyimpanan suhu rendah (4oC±2oC), suhu ruang (25oC±2oC) dan suhu tinggi (40oC±2oC) serta cycling test. Analisa kuantitatif asam glisirisat dalam ekstrak etanol akar manis dengan spektrofotometer UV menunjukkan kadar sebesar 156,65 mg/g atau 15,665%. Uji keamanan dilakukan dengan uji iritasi mata dengan metode HET-CAM dan uji iritasi kulit dengan metode patch test. Hasil menunjukkan bahwa sediaan hair tonic ekstrak akar manis 5% dan 10% memiliki aktivitas pertumbuhan rambut yang setara dan bahkan lebih baik dibandingkan kontrol positif minoksidil 2%. Hasil uji stabilitas fisik menunjukkan sediaan hair tonic ekstrak akar manis memiliki stabilitas fisik yang baik. Dari hasil uji keamanan iritasi kulit tidak terjadi iritasi, sedangkan hasil uji HET-CAM menunjukkan sediaan mengiritasi ringan pada mata.
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with no skin irritation, meanwhile HET-CAM test showed that the hair tonic containing liquorice extract has mild eye irritation.
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