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## “PENGUNAAN TANAMAN SEBAGAI AGEN PENUMBUH RAMBUT KELINCI”. INTISARI

**Latar Belakang :** Kerontokan rambut atau *Alopecia areata* sering dialami oleh masyarakat. Beberapa produk perawatan rambut herbal yang dapat digunakan adalah tanaman mangkokan (*Nothopanax scutellarium* L.), krokot (*Portulaca oleracea* L.) dan akar manis (*Glycyrrhiza glabra* L.).

**Tujuan :** Untuk mengkaji aktivitas *hair tonic* ekstrak mangkokan, krokot dan akar manis sebagai penumbuh rambut dan mengkaji senyawa aktif dalam tanaman mangkokan, krokot dan akar manis yang berfungsi sebagai penumbuh rambut.

**Metode :** Kajian artikel menggunakan 5 artikel *hair tonic* tanaman mangkokan, krokot dan akar manis dan uji aktivitas pertumbuhan rambut pada masing-masing artikel.

**Hasil :** Uji aktivitas pertumbuhan rambut menunjukkan bahwa pada *hair tonic* fraksi etil asetat daun mangkokan memperoleh hasil yaitu sebesar  $1,96 \pm 5,68$  cm, pada *hair tonic* ekstrak daun mangkokan sebesar  $1,095 \pm 0,374$  cm. Kombinasi *hair tonic* ekstrak daun mangkokan dan daun seledri yaitu sebesar  $2,46 \pm 0,013$  cm, *hair tonic* ekstrak tanaman krokot sebesar  $1,45 \pm 0,27$  cm dan *hair tonic* ekstrak akar manis sebesar  $1,87 \pm 3,51$  cm. Senyawa aktif yang terkandung dalam daun mangkokan adalah alkaloid, flavonoid, saponin, dan tanin. Tanaman krokot mengandung saponin, flavonoid dan fenol. Batang akar manis mengandung terpenoid, flavonoid, alkaloid, saponin dan asam gliserat.

**Kesimpulan :** Sediaan *hair tonic* ekstrak tanaman mangkokan (*Nathopanax scutellarium* L), tanaman krokot (*Portulaca oleracea* L.) dan akar manis (*Glycyrrhiza glabra* L) memiliki aktivitas pertumbuhan rambut (*hair tonic*). Kandungan fitokimia dalam daun mangkokan adalah alkaloid, flavonoid, tanin dan saponin. Tanaman krokot mengandung flavonoid, saponin dan fenol. Tanaman akar manis mengandung terpenoid, flavonoid, alkaloid, saponin dan asam gliserat.

**Kata Kunci :** Mangkokan, Krokot, Akar manis, Penumbuh rambut.

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## THE USE OF PLANTS AS A HAIR TONIC AGENT ON RABBITS

### ABSTRACT

**Background:** Hair loss or Alopecia areata is often experienced by people. Some herbal hair care products that can be used are mangkokan (*Nothopanax scutellarium* L.), purslane (*Portulaca oleracea* L.) and licorice root (*Glycyrrhiza glabra* L.).

**Purpose :** To study the hair tonic activity of mangkokan, purslane and liquorice extracts as hair growers and to study the active compounds in mangkokan, purslane and liquorice plants which function as hair growth.

**Methods :** The study of articles used 5 articles of hair tonic for mangkokan, purslane and liquorice and tested the hair growth activity in each article.

**Results :** The hair growth activity test showed that the hair tonic from ethyl acetate fraction of mangkokan leaf was  $1.96 \pm 5.68$  cm, and  $1.095 \pm 0.374$ cm. The hair tonic combination of mangkokan leaf extract and celery leaf was  $2.46 \pm 0.013$  cm, purslane plant extract hair tonic was  $1.45 \pm 0.27$  cm and licorice root extract hair tonic was  $1.87 \pm 3.51$  cm. The active compounds contained in mangkokan leaf are alkaloids, flavonoids, saponins, and tannins. Purslane contains saponins, flavonoids and phenols. Liquorice root contains terpenoids, flavonoids, alkaloids, saponins and glyceric acid.

**Conclusion :** Hair tonic preparations of mangkokan plant extract (*Nathopanax scutellarium* L), purslane (*Portulaca oleracea* L.) and liquorice root (*Glycyrrhiza glabra* L) have hair growth activity (hair tonic). The phytochemical content in mangkokan leaves are alkaloids, flavonoids, tannins and saponins. Pursplane plants contains are saponins, flavonoids and phenols. Liquorice root contains are terpenoids, flavonoids, alkaloids, saponins and glyceric acid.

The active compounds contained in mangkokan, purslane and liquorice stems which are thought to have a role as hair growth are flavonoids and saponins.

**Keywords :** Mangkokan, Purslane, Licorice Root, hair grower.