

ABSTRACT

(LITERATURE REVIEW)

TESTING THE EFFECTIVENESS OF *HAIR TONIC* FORMULATION FROM VARIOUS NATURAL MATERIALS USING MACERATION METHOD

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Various causes of complaints in the hair, one of which is hair loss which over time will cause baldness. There are many ways to do this, one of which is by using cosmetic preparations in the form of hair growth liquid, namely hair tonic derived from synthesis, one of which is Minoxidil. Minoxidil has advantages and disadvantages, one of the disadvantages of minoxidil is that it has side effects including itching, irritation, loss at the beginning of use (2-6 weeks), dependence on its use and the potential for headaches, vertigo, edema to hypotension. Therefore, to reduce the side effects of using synthetic materials, formulations using natural ingredients are made. The design of this research is a literature review on three journals that formulate hair tonic with natural ingredients, namely a combination of celery leaves and tea leaves, a combination of celery leaves and bowls of leaves, and single bowls of leaves. The results from the three journals had good organoleptic and pH test results, and were proven to be able to grow hair in rabbits. The results of the test of the effectiveness of hair growth in rabbits in journals using a combination of celery leaves and tea leaves are the best formula B which consists of 7.5% celery ethanol extract and 2.5% green tea leaves capable of growing hair $1.8967 \text{ cm} \pm 0.002$ (in the journal 1.890 cm), then in the second journal, namely formula B which consists of 7.5% celery ethanol extract and 2.5% kukukan leaf with an average hair length growth that is formula B $2.459 \text{ cm} \pm 0.013$, then the third journal is formula A (25%) $16,197 \text{ mm} \pm 0.179$. The results show that hair tonic can be formulated with natural ingredients, and the one that has the best hair growth effectiveness is a combination of 7.5% celery ethanol extract and 2.5% kukukan leaf.

Keywords: hair tonic, celery leaves, tea leaves, bowls leaves, rabbit.