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UJI IRITASI PRIMER LOTION EKSTRAK ETANOLIK DAUN KEMANGI (*Ocimum basilicum* Linn) PADA KELINCI JANTAN BERDASARKAN PARAMETER INDEKS IRITASI PRIMER

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ABSTRACT

Kemangi (*Ocimum basilicum* L.) is Lamiaceae family, consists of volatile oil, saponin, flavonoid, tannin, and polyphenol. One of its functions is as an antioxidant. The antioxidant mechanism is blocking free radical oxidative bound with LDL (Low Density Lipoprotein) (Udupa, 2006). This study explores kemangi as a lotion formulation on its primary irritation effect using male rabbits. Kemangi leaves are extracted with Soxhlet method and formulated on lotion. Primary irritation test is conducted by using patch test on 12 male rabbits. Rabbits are divided into 2 groups, with incision and without incision. Each of them got same treatments: normal control aquadest, lotion base control, and 4 tapering doses of kemangi leaves extract. Each treatment is done 6 times on different rabbits, with incision and without incision group. The treatment is applied on rabbits' back after 3-stage shaving. For incision group, after 3-stage shaving the skin is scratched with minor incision on cell surface. Toxic symptoms are observed during 24 hours and 72 hours after lotion application. The study result is analyzed qualitatively and quantitatively. Qualitative analysis showed that any erythema was found as reddish spots on the rabbits' back skin, but no edema was found. Primary irritation index as quantitative analysis showed 0,083 for normal control aquadest; 0,207 for lotion base control; 0,292 for 0,25g/inci² kemangi leaves extract; 0,416 for 0,5g/inci² kemangi leaves extract; 0,582 for 1 g/inci² kemangi leaves extract; 0,642 for 2 g/inci² kemangi leaves extract. It means kemangi leaves extract have no primary irritation effect.

Keywords: Kemangi, patch test, anti oxidant