

INTISARI

Minyak atsiri jahe merah (*Zingiber officinale* Rosc.) sudah terbukti potensinya terhadap *Candida albicans*. Penelitian ini bertujuan untuk mendapatkan komposisi optimal dari penggunaan campuran basis PEG 1000-Vaselin pada salep yang mengandung minyak atsiri jahe merah.

Dalam penelitian ini minyak atsiri jahe merah diperoleh dengan cara destilasi uap dan air dari bahan kering jahe merah. Setelah itu, minyak atsiri yang diperoleh dibuat dalam suatu formulasi dengan variasi komposisi PEG 1000-Vaselin. Selanjutnya sifat fisis dari tiap formula dianalisis secara statistik dengan Anava satu jalan dan dilanjutkan dengan uji Tukey. Hasil statistik tersebut kemudian dibandingkan dengan hasil perhitungan menggunakan metode *Simplex Lattice Design*.

Hasil akhir menunjukkan komposisi PEG 1000 80% : Vaselin 20% merupakan kombinasi optimum seperti yang dijelaskan dari uji sifat fisis.

ABSTRACT

The essential oil of red ginger (*Zingiber officinale* Rosc.) has revealed its potency against *Candida albicans*. This present research was aimed at obtaining the optimum composition of the basic mixture of PEG 1000-Vaselin in the ointment containing red ginger essential oil.

In this experiment the red ginger was prepared with water and steam distillation of dried raw material *Zingiber officinale* Rosc. Thereafter, the extract obtained were incorporated into the formulation prepared in the variation of PEG 1000-Vaselin composition. Moreover, the physical characteristics of each formula were analyzed statistically with one way anova and was continued with Tukey test. Furthermore, the results obtained were compared with *Simplex Lattice Design* method.

Finally, the results showed that the composition 80% of PEG 1000 – 20% of Vaselin was the optimum combination as confirmed in their physical characteristic studies.

Keywords : *Zingiber officinale* Rosc., Essential oil, Ointment, Water soluble base, Ointment oleagineus base, *Candida albicans*, Antifungus.