

## **BAB V**

### **PENUTUP**

#### **1.1 Kesimpulan**

Berdasarkan hasil penelitian yang dilakukan, maka dapat diambil kesimpulan sebagai berikut:

1. Vitamin E ( $\alpha$ -tokoferol) dapat diformulasikan dalam bentuk sediaan mikroemulsi menggunakan metode emulsifikasi spontan serta stabil secara fisik
2. Sediaan mikroemulsi vitamin E memiliki aktivitas antioksidan dengan persen perendaman radikal bebas ( $IC_{50}$ ) adalah sebesar 41,29  $\mu$ g/mL.

#### **1.2 Saran**

Adapun saran yang dapat diberikan adalah:

1. Perlu dilakukan penelitian lanjutan tentang uji stabilitas kimia sediaan mikroemulsi vitamin E dengan melakukan uji kadar vitamin E dalam sediaan mikroemulsi selama masa penyimpanan tertentu.
2. Perlu dilakukan penelitian lanjutan berupa uji penetrasi atau uji difusi sediaan mikroemulsi vitamin E secara in-vivo.
3. Penelitian perlu dikembangkan lagi dengan melakukan uji perbandingan efektivitas antioksidan antara sediaan mikroemulsi vitamin E topikal dengan rute pemberian mikroemulsi lainnya seperti rute per oral.

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