

BAB 5

KESIMPULAN DAN SARAN

5.1. Kesimpulan

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

1. Persen ekstrak kering etanol total yaitu sebesar $19,73 \pm 0,0031$ %. Hasil rendemen total masing-masing yaitu fraksi n-heksana sebesar 0% , fraksi etil asetat sebesar 3,69% , fraksi air sebesar 12,46%. Validasi metode yang digunakan untuk ekstrak dan sampel sudah memenuhi persyaratan yaitu KLT dengan fase gerak n-heksana : etil asetat (8:2, v/v), fase diam silika gel F254 pada panjang gelombang 285 nm, serta nilai Rf 0,34. Hasil uji linearitas tidak ada perbedaan signifikan. Akurasi sampel sudah memenuhi persyaratan berada pada rentang 98-102%. LOD dan LOQ sampel yaitu berturut-turut sebesar 52,74 $\mu\text{g/ml}$ dan 175,81 $\mu\text{g/ml}$.
2. Hasil penetapan kadar sampel kumarin menunjukkan pada ekstrak etanol $1,92 \pm 0,13\%$, fraksi etil asetat $2,20 \pm 0,10\%$, serta tidak terdapat pada fraksi air.

5.2. Saran

Hasil penelitian ini diketahui bahwa metode KLT-Densitometri dapat dilakukan untuk menetapkan kadar kumarin pada sampel ekstrak maupun fraksi Cinnammomi cortex. Pada penelitian ini diharapkan dapat dikembangkan metode pra-ekstraksi dengan menggunakan pelarut yang dapat mengekstraksi kumarin lebih baik, atau pengujian toksisitas dari ekstrak bebas kumarin untuk membuktikan manfaat lebih baik.

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