

BAB 5

KESIMPULAN

5.1. Kesimpulan

Berdasarkan hasil *design expert* terhadap uji mutu fisik granul pembawa maka diperoleh jumlah laktosa sebagai pembawa larut air sebanyak sampai 165 gram dan jumlah SSG sebagai superdisintegran sebanyak 3,1575 gram yang akan memberikan hasil respon sudut diam $30,44^\circ$; *Hausner ratio* 1,14; *carr's index* 12,33%; dan ukuran partikel $413,92\ \mu\text{m}$.

Persen pelepasan obat yang dilakukan pada campuran interaktif dengan granul pembawa, campuran interaktif tanpa granul pembawa, kapsul merk dagang dan metode granulasi basah pada menit ke 2 secara berturut-turut 87,63% ; 85,38% ; 35,97% dan 87,20%. Homogenitas kadar piroksikam campuran interaktif dengan granul pembawa lebih homogen ($KV \leq 2$) jika dibandingkan dengan campuran interaktif tanpa granul pembawa ($KV \geq 2$).

Campuran interaktif dapat meningkatkan homogenitas piroksikam yang memiliki dosis kecil dan dapat meningkatkan laju disolusi piroksikam.

5.2. Saran

Untuk penelitian selanjutnya, campuran interaktif dapat diformulasikan dalam bentuk sediaan tablet atau kapsul untuk obat-obatan yang memiliki dosis kecil dan kelarutan yang rendah dalam air.

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