

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Pada penelitian optimasi formula tablet ekstrak daun sirsak menggunakan PVP K-30 sebagai pengikat dan *crospovidone* sebagai penghancur, diperoleh bahwa konsentrasi PVP K-30 dapat secara signifikan menurunkan kerapuhan tablet dan waktu hancur tablet ekstrak daun sirsak. Konsentrasi *crospovidone* mampu secara signifikan dan dominan menurunkan kerapuhan tablet dan meningkatkan waktu hancur tablet ekstrak daun sirsak. Interaksi antara PVP K-30 sebagai pengikat dan *crospovidone* sebagai penghancur mampu secara signifikan meningkatkan waktu hancur tablet ekstrak daun sirsak.

Formula optimum tablet ekstrak daun sirsak dapat dibuat dengan campuran konsentrasi PVP K-30 1,23 % sebagai pengikat dan konsentrasi *crospovidone* 4,65 % sebagai penghancur. Secara teoritis formula optimum akan menghasilkan tablet dengan kekerasan 4,42 kp, kerapuhan 0,23%, dan waktu hancur 20,04 menit. Hasil yang didapatkan melalui pengujian adalah kekerasan 4,57 kp, kerapuhan 0,15 %, dan waktu hancur tablet 14,35 menit.

5.2 Saran

Pada penelitian selanjutnya perlu dilakukan penelitian mengenai formulasi tablet dengan menggunakan ekstrak etanol daun sirsak, uji disolusi untuk mengetahui profil pelepasan obat, penetapan kadar bahan aktif (rutin) secara spektrofotometri, dan pengujian efek farmakologi dari sediaan tablet ekstrak air daun sirsak (*Annona muricata* L.).

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