

BAB 5

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Konsentrasi amilum kulit pisang agung sebagai pengikat dan *crospovidone* sebagai superdisintegran dalam formula ko-proses berpengaruh secara signifikan terhadap *Carr's index*, *Hausner ratio*, waktu hancur tablet dan waktu pembasahan tablet.

Formula optimum bahan ko-proses yang diperoleh dengan program optimasi *Design Expert* yaitu formula dengan konsentrasi amilum kulit pisang agung 3,5% dan konsentrasi *crospovidone* 5%.

Tablet ODT domperidone yang dikempa dengan formula ko-proses yang optimum memenuhi syarat sebagai tablet ODT dengan karakteristik sebagai berikut: *carr's index* 17,977%, *hausner ratio* 1,216, kekerasan 2,122 Kp, kerapuhan 0,319 %, waktu hancur 9,509 detik, waktu pembasahan 6,916 detik, dan rasio absorpsi air 143,305.

5.2. Alur Penelitian Selanjutnya

Diperlukan perbaikan cara pengolahan amilum kulit pisang agung supaya memberikan hasil karakterisasi yang memenuhi persyaratan.

Dapat dilakukan penelitian lebih lanjut menggunakan amilum kulit pisang sebagai pengikat, dan menggunakan superdisintegran lain selain *crospovidone* serta bahan aktif lain selain domperidone untuk membuktikan kesahihan dari hasil optimasi yang didapat.

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