BAB 5
KESIMPULAN DAN SARAN

5.1. Kesimpulan

Formula ODT dimenhidrinat dengan teknik likuisolid menggunakan pelarut *non volatile* dan bahan ko-proses dapat menghasilkan mutu fisik tablet yang sesuai dengan persyaratan dilihat dari hasil uji mutu fisik tablet yang memenuhi spesifikasi yang ditetapkan. Hal ini dapat dari hasil uji mutu fisik granul yaitu rata-rata kelembapan 2,64%, *carr's index* 16,98%, dan *hausner ratio* 1,22, dimana semua uji mutu fisik granul memenuhi persyaratan. Sedangkan untuk hasil uji mutu fisik tablet ODT dimenhidrinat dengan teknik likuisolid rata-rata keragaman bobot 101,5 mg, kekerasan 2,40 kp, kerapuhan 0,601 %, waktu hancur 37,381 detik, waktu pembasahan 29,415 detik dan rasio absorbsi air 68,56%. Semua uji mutu fisik tablet ODT dimenhidrinat dengan teknik likuisolid memenuhi persyaratan.

Dari hasil stabilitas mutu fisik tablet ODT dimenhidrinat dengan teknik likuisolid dan ODT dimenhidrinat tanpa teknik likuisolid pada bulan ke-0 dan bulan ke-1 tidak menunjukkan adanya perbedaan yang signifikan, hal ini menunjukakan stabilitas mutu fisik tablet selama penyimpanan.

Berdasarkan hasil uji persen pelepasan secara *in vitro* pada tablet ODT dimenhidrinat dengan teknik likuisolid dibandingkan dengan ODT dimenhidrinat tanpa teknik likuisolid dan tablet inovator. Diperoleh hasil bahwa ODT dimenhidrinat menggunakan teknik likuisolid memiliki persen pelepasan yang lebih cepat dibandingkan ODT dimenhidrinat tanpa teknik likuisolid, hal ini menunjukkan bahwa teknik likuisolid dapat meningkatkan *onset of action.* Sedangkan bila dibandingkan dengan tablet

inovator, hasil persen pelepasan tablet inovator lebih besar dibandingkan ODT dimenhidrinat dengan teknik likuisolid.

5.2. Alur Penelitian Selanjutnya

1. Dapat dilakukan peningkatan cara pengolahan amilum kulit pisang agung agar memberikan hasil karakteristik yang memenuhi persyaratan.
2. Dapat dilakukan penelitian lebih lanjut mengenai formulasi bahan ko-proses dengan menggunakan bahan aktif selain dimenhidrinat untuk membuktikan dan mendapatkan hasil yang baik dari hasil formulasi yang telah didapatkan.

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