

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Kombinasi HPMC K4M – amilum kulit pisang agung dan konsentrasi natrium bikarbonat maupun interaksinya memberikan pengaruh yang signifikan terhadap kekerasan, *floating lag time*, dan konstanta laju disolusi tablet. Kombinasi HPMC K4M – amilum kulit pisang agung memberikan pengaruh berupa menurunkan kekerasan, mempercepat *floating lag time*, dan menurunkan konstanta laju disolusi. Konsentrasi natrium bikarbonat memberikan pengaruh berupa menurunkan kekerasan tablet, mempercepat *floating lag time*, dan meningkatkan konstanta laju disolusi. Interaksi antara kombinasi HPMC K4M – amilum kulit pisang agung dan natrium bikarbonat memberikan pengaruh berupa meningkatkan kekerasan, memperlambat *floating lag time*, dan menurunkan konstanta laju disolusi. Berdasarkan *design expert* diperoleh formula optimum tablet *floating* gliklazid dengan menggunakan kombinasi HPMC K4M – amilum kulit pisang agung sebesar 4,585 : 1, dan konsentrasi natrium bikarbonat sebesar 10,45% yang akan memberikan hasil respon kekerasan 4,84 kp, kerapuhan 0,63 %, *floating lag time* 0,98 menit, dan konstanta laju disolusi 1,5158 mg/jam.

5.2 Saran

Diperlukan penelitian lebih lanjut mengenai pelepasan obat secara *in vivo* dan ditentukan korelasi antara uji *in vivo* – *in vitro* pelepasan obat pada tablet *floating* gliklazid.

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