

## BAB 5

### SIMPULAN

#### 5.1. Simpulan

- Perbandingan konsentrasi kombinasi HPMC K4M –*xanthan gum* dan macam pengisi serta interaksinya memiliki pengaruh terhadap jumlah ibuprofen yang larut dari tablet lepas lambat. Macam pengisi berpengaruh pada pelepasan tiga jam awal, sedangkan perbandingan konsentrasi kombinasi HPMC K4M-*xanthan gum* lebih berperan pada pelepasan berikutnya. Interaksi antara perbandingan konsentrasi kombinasi HPMC K4M-*xanthan gum* dan macam pengisi meningkatkan larutnya obat dari tablet.
- Formula optimum dari tablet lepas lambat ibuprofen didapatkan pada perbandingan konsentrasi kombinasi HPMC K4M-*xanthan gum* 1:1 dengan pengisi laktosa monohidrat yang memberikan persen obat larut 3 jam sebesar 47,81% dan persen obat larut 6 jam sebesar 58,71% atau pada perbandingan konsentrasi kombinasi HPMC K4M-*xanthan gum* 4:1 dengan pengisi laktosa monohidrat, yang akan memberikan persen obat terlarut dalam 3 jam sebesar 39,82% dan persen obat yang terlarut dalam 6 jam sebesar 62,08%.

#### 5.2. Alur Penelitian Selanjutnya

Dilakukan penelitian pembuktian beberapa formula optimum terpilih, yang kemudian dibandingkan dengan hasil secara teoritis.

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