

BAB V

SIMPULAN

5.1. Simpulan

Kombinasi matriks *tara gum* dan kalsium sulfat dapat mempengaruhi pelepasan tablet lepas lambat Ibuprofen dengan mekanisme pelepasan difusi dan erosi, serta kinetika pelepasan mengikuti orde nol. Formula terbaik adalah formula A yang menggunakan matriks *tara gum* 2,5% (b/b) yang dapat menghasilkan K disolusi yang paling mendekati K rate out teoritis.

5.2. Alur Penelitian Selanjutnya

Dapat dilakukan pembuatan tablet dengan tekanan kompresi yang sama supaya sifat kompresibilitas dan kompaktibilitas dari masing-masing formula yang karena kombinasi *tara gum* – kalsium sulfat dapat diketahui, sehingga pengaruh kombinasi *tara gum* – kalsium sulfat terhadap pelepasan obat dapat lebih nampak. Selain itu, dapat juga dilakukan penelitian menggunakan bahan aktif ibuprofen untuk dijadikan sediaan lepas lambat dengan menggunakan matriks kombinasi *tara gum* dan kalsium sulfat dengan perbandingan yang lebih kecil.

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