

BAB 5

SIMPULAN

5.1. Simpulan

Berdasarkan data penelitian yang telah diinterpretasikan, dapat ditarik kesimpulan sebagai berikut.

Tablet likuisolid ibuprofen dengan menggunakan polimer hidrofilik HPMC K4M dan polietilen glikol 400 (PEG 400) sebagai pelarut *non volatile* dapat meningkatkan disolusi tablet ibuprofen likuisolid dibandingkan dengan tablet ibuprofen konvensional (Formula A).

Penambahan polimer hidrofilik HPMC K4M lebih besar dari 2,5% dapat menurunkan konstanta laju disolusi tablet likuisolid ibuprofen dengan polietilen glikol 400 (PEG 400) sebagai pelarut *non volatile*. Formula B memiliki konstanta laju disolusi yang paling besar dibandingkan formula lainnya. Hal ini disebabkan pada formula C dan D mengandung konsentrasi HPMC K4M yang lebih besar dari pada formula B (2,5%) sehingga akan terbentuk lapisan kental yang dapat menghambat laju pelepasan obat.

5.2. Alur Penelitian Selanjutnya

Dapat dilakukan penelitian lebih lanjut mengenai tablet likuisolid dengan mencari formula optimum berdasarkan berbagai faktor seperti konsentrasi obat dalam pelarut, konsentrasi polimer, konsentrasi *carrier*, dan perbandingan antara *carrier* dan *coating*.

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