

BAB 5

SIMPULAN

5.1. Simpulan

Berdasarkan data penelitian yang telah diinterpretasikan, dapat ditarik kesimpulan :

- Tablet likuisolid ibuprofen dengan menggunakan polimer hidrofilik *xanthan gum* dan tween 80 sebagai pelarut *non volatile* dapat meningkatkan disolusi ibuprofen dibandingkan dengan tablet ibuprofen konvensional (Formula A).
- Penambahan polimer hidrofilik *xanthan gum* sampai konsentrasi 10% dari *liquid medication* dapat meningkatkan konstanta laju disolusi tablet likuisolid ibuprofen dengan tween 80 sebagai pelarut *non volatile*. Formula D memiliki konstanta laju disolusi yang paling lebih besar (10% dari *liquid medication*) dibandingkan formula lainnya. Hal ini disebabkan pada formula D mengandung konsentrasi *xanthan gum* yang paling besar sehingga memiliki sifat hidrofilisitas yang paling tinggi, yang dapat meningkatkan laju dan jumlah obat yang terdisolusi

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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