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PENGARUH PERBANDINGAN OBAT-POLIMER TERHADAP KARAKTERISTIK FISIK DAN PELEPASAN MIKROPARTIKEL KETOPROFEN-KITOSAN

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Abstract

The aim of this research was to investigate the effect of ketoprofen amount on drug content and drug release profile of kitosan microparticles of ketoprofen. Microparticles was prepared by orifice-ionic gelation method with ketoprofen-chitosan ratio of 2:10; 3:10; and 4:10. Ketoprofen was dispersed in chitosan solution then the dispersion was dropped into tripolyphosphate solution.

The obtained microparticles had have irregular shape after drying. The particle size of microparticles was larger by increasing initial drug amount. Efficiency encapsulation also increased as initial drug amount increased. In vitro- drug release from microparticles in phosphate buffer media pH 6.8 was slower than ketoprofen itself. Microparticles with the highest initial drug amount had the fastest release.

Keyword : ketoprofen, microparticles, kitosan, sodium, tripolyphosphate, orifice-ionic, gelation,

Daftar Pustaka :