

**STUDI KOMPARATIF KONSENTRASI PENGIKAT
GELATIN B 1%, 2%, DAN 3% TERHADAP KARAKTERISTIK FISIK
TABLET KITOSAN METODE GRANULASI BASAH**

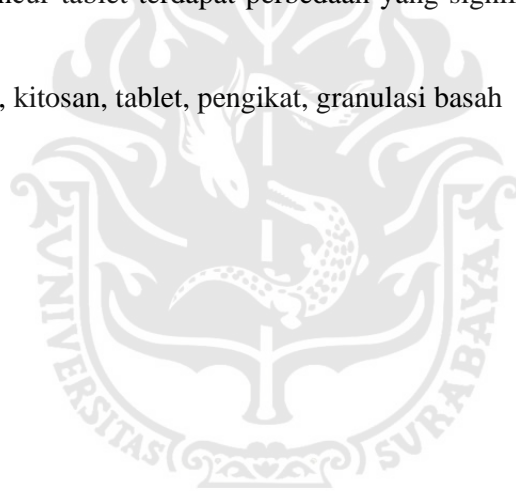
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ABSTRAK

Telah dilakukan penelitian untuk menganalisis pengaruh konsentrasi Gelatin B sebagai pengikat terhadap karakteristik fisik tablet pada pembuatan tablet kitosan menggunakan metode granulasi basah. Konsentrasi bahan pengikat yang ditambahkan adalah 1%, 2% dan 3%. Evaluasi terhadap karakteristik fisik tablet dilakukan pada Formula I, Formula II, dan Formula III meliputi keseragaman bobot, keseragaman ukuran, kekerasan, friabilitas, dan waktu hancur tablet memenuhi spesifikasi. Data hasil pemeriksaan karakteristik fisik tablet kemudian diolah secara statistik dengan metode *One-way ANOVA* dengan taraf signifikan 5% pada Formula I, II, dan III. Dari analisis secara statistik diperoleh hasil bahwa berdasarkan pemeriksaan karakteristik tablet keseragaman bobot, keseragaman ukuran, friabilitas, kekerasan dan waktu hancur tablet terdapat perbedaan yang signifikan antara Formula I, II, dan III.

Kata Kunci : Gelatin B , kitosan, tablet, pengikat, granulasi basah



**COMPARATIVE STUDY OF CONCENTRATION OF GELATIN B AS
BINDER IN 1%, 2%, AND 3% ON THE PHYSICAL
CHARACTERISTICS OF CHITOSAN TABLETS USING WET
GRANULATION METHOD**

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ABSTRACT

A Research was conducted to analyze the influence of concentration of Gelatin B as a binder against the physical characteristics of chitosan tablets in the manufacture of tablets using wet granulation method. Concentration of binder added is 1%, 2% and 3%. There were three formulas to be evaluated: Formula I, Formula II, and Formula III. The evaluation of the physical characteristics of tablets was based on the uniformity of weight, uniformity of size, hardness, friability, and disintegration time. The result of evaluation from Formula I, II, and III was conformed with qualities of characteristics tablet. The results of the physical characteristics of tablets were analyzed statistically by *One-way ANOVA* with a significant level of 5%. The statistical analyzed showed that uniformity of weight, uniformity of size, friability, hardness and disintegration time, there were significant differences between Formula I, II, and III.

Key words : *Gelatin B, chitosan, tablet, binder, wet granulation*