

**STUDI KOMPARATIF KONSENTRASI *CROSSPOVIDONE* TERHADAP  
KARAKTERISTIK FISIK TABLET KITOSAN MENGGUNAKAN  
*FILLER-BINDER PHARMATOSE<sup>®</sup> DCL 15* DENGAN METODE CETAK  
LANGSUNG**

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**ABSTRAK**

Penelitian dilakukan untuk menganalisis pemenuhan spesifikasi dan perbedaan pada tablet kitosan yang mengandung *crosspovidone* 2%, 4%, 8% dan *pharmatose<sup>®</sup> DCL 15* yang dibuat secara cetak langsung. Evaluasi tablet yang dilakukan pada formula I, II, dan III memenuhi spesifikasi dalam hal keseragaman bobot, friabilitas, kekerasan dan waktu hancur. Analisis dilakukan secara statistik dengan metode *one-way Anova* menyatakan bahwa terdapat perbedaan yang tidak signifikan ( $\alpha = 0,05$ ) pada kekerasan, sedangkan keseragaman bobot, friabilitas dan waktu hancur berbeda signifikan ( $\alpha = 0,05$ ).

Kata kunci: *Crosspovidone*, *Pharmatose<sup>®</sup> DCL 15*, Kitosan, Cetak langsung.

**COMPARATIVE STUDY OF CONCENTRATION *CROSSPOVIDONE* ON  
CHITOSAN TABLET WITH *PHARMATOSE<sup>®</sup> DCL 15* AS FILLER-  
BINDER USING DIRECT COMPRESSION**

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**ABSTRACT**

A research was conducted to analyze specification compliance and the difference at chitosan tablet manufacturing by direct compression that contain *crosspovidone* 2%, 4%, 8% and *Pharmatose<sup>®</sup> DCL 15*. The evaluation based on uniformity of weight, friability, hardness and disintegration time. The result of the three formula has complained the spesification of uniformity of weight friability, hardness and disintegration time. The difference between formula I, II and III was analysis by One-Ways Anova method can be stated that the differences were not significant ( $\alpha = 0,05$ ) on the hardness, uniformity of weight, while friability, and disintegration time is significant different ( $\alpha = 0,05$ ).

Key words: *Crosspovidone*, *Pharmatose<sup>®</sup> DCL 15*, Chitosan, Direct compression