PENGARUH PERBEDAAN DISINTEGRAN *SODIUM STARCH GLYCOLATE* DENGAN *CROSPOVIDONE* TERHADAP KARAKTERISTIK DISOLUSI PIROKSIKAM DALAM SEDIAAN *ORALLY DISINTEGRATING TABLET*

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ABSTRAK

Penelitian ini bertujuan untuk melakukan analisis pengaruh perbedaan disintegran *sodium starch glycolate* dan *crospovidone* pada pembuatan *orally disintegrating tablet* secara cetak langsung terhadap karakteristik disolusi piroksikam. Disintegran *sodium starch glycolate* dan *crospovidone* yang digunakan sebesar 5%. Uji disolusi ODT piroksikam dilakukan dengan menggunakan metode *paddle* dengan kecepatan 50 rpm dalam media cairan lambung tanpa pepsin. Penetapan kadar dilakukan secara spektrofotometer UV. Parameter disolusi yang digunakan adalah $\%Q_{45menit}$, ED, AUC, $t_{100\%}$, dan kr. Disimpulkan bahwa ODT piroksikam yang menggunakan disintegran *sodium starch glycolate* menghasilkan laju disolusi yang berbeda dari ODT yang menggunakan disintegran *crospovidone*. ODT piroksikam yang menggunakan *Sodium starch glycolate* menghasilkan laju disolusi yang lebih cepat ($\alpha = 0,05$) dibandingkan ODT piroksikam yang menggunakan *crospovidone.*

Kata kunci : *Orally disintegrating tablet*, piroksikam, disintegran, *sodium starch glycolate*, *crospovidone*, disolusi

INFLUENCE OF DISINTEGRANT SODIUM STARCH GLYCOLATE AND CROSPOVIDONE ON CHARACTERISTICS OF DISSOLUTION OF PIROXICAM IN THE ORALLY TABLET DISINTEGRATING DOSAGE FORM

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ABSTRACT

This study aims to analyze the influence of disintegrant sodium starch glycolate and crospovidone on the manufacture of orally disintegrating tablets (ODT) by direct compression towards the dissolution characteristics of piroxicam. Sodium starch glycolate and crospovidone were used at concentration of 5%. The dissolution test performed using paddle method at 50 rpm and simulated gastric juice without pepsin as medium. The concentration of piroxicam was determined by UV-spectrophotometry. $\%Q_{45menit}$, ED, AUC, $t_{100\%}$ and kr were determined as dissolution parameters. There were some significance differences (α = 0,05) between piroxicam ODT that used sodium starch glycolate and piroxicam ODT that used crospovidone in dissolution characteristics. The dissolution rate of piroxicam in ODT using sodium starch glycolate was faster than ODT using crospovidone.

Keyword : Orally disintegrating tablet, piroxicam, disintegrant, sodium starch glycolate, crospovidone, dissolution