

ABSTRAK

MALIKA, B.S., 2025, PEMBUATAN DAN UJI MUTU FISIK TABLET NA DIKLOFENAK DENGAN KONSENTRASI EKSPLOTAB, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA. Dibimbing Drs. apt. Widodo Priyanto, MM

Na diklofenak merupakan salah satu zat aktif yang efektif dalam mengobati atau meredakan peradangan dan rasa nyeri. Na diklofenak dapat di formulasikan dengan bahan penghancur eksplotab. Eksplotab berfungsi sebagai superdisitegrent.

Penelitian diawali dengan pembuatan tablet Na diklofenak dengan metode granulasi basah. Ketiga formula di kosentrasikan dengan eksplotab formula I 10%, formula II 15%, dan formula III 20%. Tahap pertama membuat sediaan granul diuji mutu fisik granul meliputi waktu alir, sudut diam, dan susut pengeringan. Kemudian dicetak dengan tablet diuji mutu fisik yaitu meliputi keseragaman bobot, kekerasan tablet, kerapuhan, dan waktu hancur tablet. Data yang di hasilkan di analisis dengan metode *one way anova*.

Hasil penelitian ini menunjukkan bahwa konsentrasi bahan penghancur eksplotab dalam pembuatan sediaan tablet Na diklofenak dapat memberikan mutu fisik yang baik. Eksplotab berpengaruh pada waktu hancur tablet dengan formula III konsentrasi 20%, semakin meningkat konsentrasi eksplotab waktu hancur yang dihasilkan semakin cepat dibandingkan dengan formula I 10% dan formula II 15%.

Kata kunci : Tablet, Na Diklofenak, Eksplotab, Granulasi Basah

ABSTRACT

MALIKA, B.S., 2025, MANUFACTURE AND PHYSICAL QUALITY TEST OF NA DICLOFENAC TABLETS WITH EKSPLOTAB CONCENTRATION, SCIENTIFIC PAPER, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY SURAKARTA. Guided by Drs. apt. Widodo Priyanto, MM

Na Diclofenac is one of the active substances that is effective in treating or relieving inflammation and pain. The purpose of this study is to determine the effect of Eksplotab concentration in tablet making. The desired tablet is a tablet that is not fragile and easily destroyed in the body according to a predetermined time. The destruction of tablets uses Eksplotab as a destroyer that can accelerate the time of destruction of Na Diclofenac tablets in the body.

This research included the manufacture of Na Diclofenac tablets using the wet granulation method and varying the concentration of Eksplotab in the three formulas, made with the concentration of Eksplotab destroyer with a concentration ratio of formula I 10%, formula II 15% and formula III 20%. In order to get good physical quality, tests are carried out on granules and tablets, which include testing the granule flow time, granule destitution angle, granule drying shrinkage, tablet weight uniformity, tablet hardness, tablet brittleness, tablet crushed time.

The results of this study show that the concentration of Eksplotab destroyers in the manufacture of Na Diclofenac tablet preparations can provide good physical quality. At 20% Eksplotab Crusher concentration, it provides a relatively faster destruction time compared to 10% Eksplotab and 15% Eksplotab concentrations.

Keywords : Tablets, Na Diclofenac, Eksplotab, Wet Granulation