

INTISARI

NOVITASARI, P, 2017, FORMULASI TABLET HISAP ASAM MEFENAMAT DENGAN VARIASI KONSENTRASI MANITOL DAN AVICEL PH 101 SEBAGAI BAHAN PENGISI SECARA GRANULASI BASAH, KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Tablet hisap biasanya mengandung satu atau lebih kategori berikut, yaitu antiseptik, anastesi lokal, antitusif, analgesik atau dekongestan. Asam mefenamat merupakan analgetik golongan AINS yang sering digunakan, namun yang beredar dipasaran dianggap kurang praktis dan sulit digunakan untuk pasien yang sukar menelan. Pengembangan tablet hisap asam mefenamat diharapkan sebagai alternatif bentuk sediaan yang praktis dan nyaman dalam penggunaan. Penelitian ini bertujuan untuk mendapat formula tablet hisap asam mefenamat yang paling baik dengan variasi konsentrasi zat pengisi manitol dan avicel pH 101.

Tablet hisap ini dibuat dengan metode granulasi basah. Granulasi dibuat dengan tiga formula, formula I manitol 25% dan avicel pH 101 75%, formula II manitol 50% dan avicel pH 101 50%, formula III manitol 75% dan avicel pH 101 25%. Evaluasi sifat fisik granul meliputi uji waktu alir, sudut diam, dan susut pengeringan, sedangkan granul yang sudah dikempa menjadi tablet diuji mutu fisik tablet yang meliputi: uji keseragaman bobot, uji kekerasan, uji kerapuhan, uji waktu larut, dan uji tanggap rasa. Data yang diperoleh dianalisis secara statistik menggunakan uji ANOVA.

Hasil penelitian yang diperoleh menunjukkan bahwa variasi bahan pengisi manitol dan avicel pH 101 dapat mempengaruhi sifat fisik tablet hisap asam mefenamat. Sediaan tablet hisap asam mefenamat dengan konsentrasi manitol 25% dan avicel pH 101 75% adalah formula yang paling baik.

Kata kunci: Asam mefenamat, tablet hisap, manitol, avicel pH 101.

ABSTRACT

NOVITASARI, P, 2017, FORMULATION OF LOZENGES OF MEFENAMIC ACID WITH VARIATION CONCENTRATIONS FILLERS OF MANITOL AND AVICEL PH 101 USING WET GRANULATION METHOD, SCIENTIFIC WORK, PHARMACY FACULTY, SETIA BUDI UNIVERSITY, SURAKARTA.

A lozenge is mostly contained one or more medicines, like antiseptic, local anesthetic, antitussive, analgesic, and decongestant. Mefenamic acid is categorized as NSAID (non-steroidal anti-inflammatory drug) analgesic, which is quite well-known for medical usage in a tablet form, but this mefenamic acid is not easily consumed for people that have problem in swallow things. A development of mefenamic acid in a lozenge form will make this NSID is practically consume. The purpose of this research is to find the best formula of mefenamic acid lozenge, with variation concentrations fillers of manitol and avicel pH 101.

Wet granulation method is applied in making this lozenge. Granulation was made in three formulations, formula I manitol 25% and avicel pH 101 75%, formula II manitol 50% and avicel pH 101 50%, formula III manitol 75% and avicel pH 101 25%. The granule obtained was tested physical properties include: flow time, repose angle, and drying shrinkage. The tablet results which obtained was tested the physical properties of tablet include: weight uniformity, hardness, friability, taste response and dissolve time test. The data obtained were analyzed statistically using ANOVA test.

The result of this research shows that variation concentrations fillers of manitol and avicel pH 101 affects the physical characteristic of the mefenamic acid lozenge. Mefenamic acid lozenge with concentration of manitol 25%: avicel pH 101 75% was the best formula.

Keywords: Mefenamic acid, lozenge, manitol, avicel pH 101.