

INTISARI

SARI, D. R., 2020, FORMULASI TABLET HISAP SARI BUAH BELIMBING MANIS (*Avverhoa carambola L.*) DENGAN KOMBINASI BAHAN PENGISI MANITOL DAN LAKTOSA, KARYA TULIS ILMIAH, FARKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Buah belimbingmanis(*Averrhoa carambola L.*) adalah buah tropis yang mengandung senyawa antioksidan tinggi. Buah belimbing biasa dikonsumsi langsung ataupun dijadikan berbagai olahan agar dapat disimpan lebih lama. Tujuan dari penelitian ini untuk mengetahui kombinasi bahan pengisi manitol dan laktosa dari formula tablet hisap sari buah belimbing manisterhadap sifat fisik tablet.

Serbuk sari buah belimbing manis dibuat secara penyarian dari daging buah belimbing manis yang diblender kemudian dikeringkan dengan maltodektrin. Tablet hisap dibuat dalam 3 formula berdasarkan kombinasi bahan pengisi, yaitu F I (manitol 75% - laktosa 25%), F II (manitol 50% - laktosa 50%) dan F III (manitol 25%:laktosa75%) dan dibuat dengan metode granulasi basah. Granul yang diperoleh diuji sifat fisik meliputi waktu alir, sudut diam dan susut pengeringan. Tablet yang diperoleh diuji sifat fisik meliputi: keseragaman bobot, kekerasan, kerapuhan, uji tanggap rasa dan waktu larut. Data yang diperoleh dianalisis secara statistik menggunakan uji ANOVA.

Hasil penelitian tablet hisap sari buah belimbing manis dengan kombinasi manitol dan laktosa menunjukkan semua formula mampu menghasilkan tablet hisap memenuhi syarat uji sifat tablet. Kombinasi bahan pengisi manitol dan laktosa dapat berpengaruh terhadap sifat fisik tablet hisap sari buah belimbing manis. Tablet hisap yang paling diterima oleh responden adalah formula I.

Kata kunci: buah belimbing manis, tablet hisap, manitol dan laktosa.

ABSTRACT

SARI, D. R., 2020, FORMULATION OF LOZENGES OF STARTER SWEET (*Avverhoa carambola* L.)ESSENSE WITH COMBINATION FILLER OF MANITOL-LAKTOSA, SCIENTIFIC PAPER, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Sweet starfruit is tropical fruit containing high antioxidant compounds. Being ordinary fruit is consumed directly or used as a process of processing so that it can be kept longer. The purpose of this study is to determine the combination of mannitol filler and lactose fillings from the physical properties of tablets.

Sweet starfruit pollen is made by a liability of sweet starfruit flesh that blended then dried by maltodextrin. Lozenges was made in three formulas, those are F I with combination of mannitol 75% - lactose 25%, F II with combination of mannitol 50% - lactose 50% and F III with combination of mannitol 25% - lactose 75%. Production of lozenges with wet granulation. 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 study results lozenges of sweet starfruit with combinations of mannitol and lactose show all formulas to produce a suction tablet meet the requirements of the tablet properties. The combination of mannitol and lactose filling materials can be coated with the nature of the sweet star fruit coer. The most accepted suction tablet by respondents is formula I.

Keywords: sweet starfruit, lozenges, mannitol and lactose.