

INTISARI

SEPTIYANINGRUM, 2015, FORMULASI TABLET EKSTRAK DAUN SIRSAK (*ANNONA MURICATA L.*) DENGAN VARIASI KONSENTRASI PVP DAN EXPLOTAB[®], KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Salah satu tanaman yang memiliki efek antikanker adalah daun sirsak (*Annona muricata L.*). Daun sirsak mengandung senyawa *acetogenins* sebagai inhibitor I atau penghambat pertumbuhan sel kanker, ekstrak daun sirsak dapat diformulasi dalam sediaan tablet dengan penambahan excipien atau bahan tambahan. Ekstrak daun sirsak dibuat dengan berbagai konsentrasi bahan pengikat PVP dan bahan penghancur Explotab[®] sehingga dihasilkan tablet yang berkualitas.

Pembuatan tablet ekstrak daun sirsak menggunakan metode granulasi basah. Granulasi dibuat dengan tiga Formula, Formula I PVP 4% dan Explotab[®] 7%, Formula II PVP 3% dan Explotab[®] 5%, Formula III PVP 2% dan Explotab[®] 3%. Data yang dihasilkan dianalisis secara statistik Anova satu arah dilanjutkan dengan uji SNK dengan taraf kepercayaan 95%.

Hasil penelitian menunjukkan ekstrak daun sirsak dapat dibuat tablet antikanker yang memenuhi persyaratan mutu fisik tablet. Tablet formula I menghasilkan tablet kekerasan tinggi, kerapuhan rendah dan waktu hancur lebih lama dari Formula II dan III.

Kata kunci: Daun sirsak, Tablet, PVP, Explotab[®].

ABSTRACT

SEPTIYANINGRUM, 2015, TABLET FORMULATION OF SOURSOP LEAVES (*Annona muricata* .L) WITH VARIATION OF PVP AND EXPLOTAB® CONCENTRATION, SCIENTIFIC PAPER, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

One of the plants that have anticancer effects is the leaves of the soursop (*Annona Muricata L.*). soursop leaves contain *acetogenins* compound as inhibitor I or inhibiting the growth of cancer cells. Soursop leaves extract can be formulated in tablet dosage form by added excipients. The extract of soursop leaf was prepared in a variety of PVP binder and Explotab® dissolved concentrations so that a high-quality chewy tablet was produced.

Tablet manufacturing of soursop leaf extract used wet granulation method. Granulation is made with three Formulas, the Formula I PVP 4% and Explotab® 7%, Formula II PVP 3% and Explotab 5%, Formula III PVP 2% and Explotab® 3%. The obtained data was analyzed statistically using one way anova followed by SNK test at 95% confidence.

The result of the study showed that soursop leaves extract could be made anticancer tablet which meet the requirements of physical quality test. Tablets of Formula I could produce the tablet with high harshness, low brittleness and longer destruction time than Formula II and III.

Keywords: Soursop leaves, tablet, PVP, Explotab®.