

## INTISARI

**PRABAWANTI, A. S, 2015, FORMULASI TABLET EKSTRAK DAUN PANDAN WANGI (*Pandanus amaryllifolius Roxb*) SEBAGAI ANTIDIABETES , KARYA TULIS ILMIAH, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Daun Pandan Wangi (*Pandanus amaryllifolius Roxb*) mengandung senyawa polifenol yang dapat menurunkan kadar glukosa darah. Penelitian ini bertujuan untuk mengetahui daun pandan wangi dapat dibuat tablet antidiabetes yang memenuhi persyaratan uji mutu fisik tablet.

Ekstrak kental daun pandan wangi diperoleh dengan cara maserasi serbuk daun pandan wangi dengan etanol 96%, Tablet ekstrak daun pandan wangi dibuat dengan menggunakan metode granulasi basah dengan tiga Formula: Formula I (PVP 1% dan Explotab<sup>®</sup> 4%), Formula II (PVP 3% dan Explotab<sup>®</sup> 6%), dan Formula III (PVP 5% dan Explotab<sup>®</sup> 8%), tablet yang sudah jadi diuji mutu fisik yang meliputi uji keseragaman bobot, uji kerapuhan, uji kekerasan dan uji waktu hancur tablet. Data kemudian dianalisis dengan uji Anova satu arah dilanjutkan dengan uji SNK dengan taraf kepercayaan 95% dengan menggunakan program SPSS 16.

Hasil penelitian menunjukkan bahwa ekstrak daun pandan wangi dengan konsentrasi bahan pengikat 1%, 3%, dan 5% dan konsentrasi bahan penghancur 4%, 6%, dan 8% dapat dibuat tablet. Ketiga formula tablet tersebut memenuhi uji mutu fisik (keseragaman, kerapuhan, kekerasan, dan waktu hancur). Tablet pada Formula I dengan konsentrasi PVP 1% dan Explotab<sup>®</sup> 4% adalah formula yang terbaik dilihat dari waktu hancur dan kerapuhannya dibanding dengan Formula II dan Formula III.

---

---

Kata kunci: Tablet, Daun Pandan Wangi, PVP, Explotab<sup>®</sup>, Granulasi Basah

## ABSTRACT

**PRABAWANTI, A. S, 2015. TABLET FORMULATION OF PANDAN WANGI (*Pandanus amaryllifolius Roxb*) LEAVES EXTRACT AS ANTIDIABETIC. SCIENTIFIC PAPER, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.**

Pandan Wangi leaf (*Pandanus amaryllifolius Roxb*) contains polyphenols compound which effective to lower blood glucose level. This study was aimed to know whether Pandan Wangi leaves extract could be made tablet dosage form that fulfilled the requirement of tablet physical qualities.

Thick extract of pandan wangi leaves was obtained by maceration method with etanol 96%. The tablets were produced using wet granulation method in three formulas : Formula I (PVP 1% and Explotab<sup>®</sup> 4%), Formula II (PVP 3% and Explotab<sup>®</sup> 6%), and Formula III (PVP 5% and Explotab<sup>®</sup> 8%). The obtained tablets were physically tested including weight uniformity, hardness, friability, and disintegration. The obtained data was statistically analyzed using one way Anova continued with SNK test at of 95% confidence by using SPSS 16 program.

The result of study showed that extract of Pandan Wangi leaves with binder contents of 1%, 3%, and 5% and disintegration contents of 4%, 6%, and 8% could be made tablet. The three formulas fulfilled the requirement of tablet physical test (weight uniformity, friability, hardness, and disintegration tablet) . Formula I with concentration PVP 1% and Explotab<sup>®</sup> 4% was the best formula observed from its disintegration and friability compared of Formula II and Formula III.

---

---

Keywords: Tablet, Pandan Wangi Leaves, PVP, Explotab<sup>®</sup>, Wet Granulation.