

Formulasi granul dan tablet eferfesen ekstrak belimbing manis (Averrhoa Carambola L.)

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Abstrak

Averrhoa carambola L. atau biasa disebut belimbing manis merupakan salah satu tanaman yang sangat berguna di Indonesia sebagai tanaman obat. Penelitian ini bertujuan untuk memperoleh formula granul dan tablet eferfesen dengan bahan berkhasiat tepung belimbing manis yang dapat digunakan sebagai minuman sehat komersial. Pada penelitian ini, tablet dibuat dengan metode granulasi kering pada kondisi kelembaban relatif (RH) 35% dengan suhu 20oC. Formulasi granul dan tablet eferfesen dilakukan dengan memvariasikan kadar konsentrasi bahan pengisi yaitu maltodekstrin dalam dua formula.

Dari hasil evaluasi sediaan granul dan tablet eferfesen didapat bahwa dari dua formula yang ada memenuhi syarat uji evaluasi sediaan. Pada uji analisis kesukaan dengan uji Mann-Whitney menunjukkan bahwa ada perbedaan bermakna terhadap kesukaan penampilan dan rasa antara kedua formula granul dan tablet eferfesen belimbing manis. Penilaian tabulasi silang menunjukkan bahwa kedua formula granul dan tablet eferfesen yang dihasilkan secara umum disukai oleh panelis.

<hr>Averrhoa carambola L. is one of the essential herbs in Indonesia which could be used as a medicine. The aim of this research was to obtain the suitable formulation of effervescent granule and tablet containing averrhoa carambola powder for a commercial healthy drink. In this research, tablets were produced with dry method granulation at specific condition with 35% of relative humidity (RH) and 20oC of temperature. Formulation of effervescent granules and tablets were done by modified concentration of excipients (maltodextrin) in two formulas.

The evaluation result showed that both of those formulas have eligible as effervescent tablet. The hedonic test with Mann-Whitney showed that there were significant differences of appearances and tastes between those granule formulas and effervescent tablet also there were relationship between appearances and tastes for each effervescent tablet formulas. the crosstabulation showed that those two granule formulas and effervescent tablet were generally most liked by panelist.