

**PENGARUH KONSENTRASI MALTODEKSTRIN
TERHADAP KARAKTERISTIK MINUMAN SERBUK INSTAN
FUNGSIONAL EKSTRAK DAUN KLUWIH (*Artocarpus
camansi*)**

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Pengaruh Konsentrasi Maltodekstrin Terhadap Karakteristik Minuman Serbuk Instan Fungsional Ekstrak Daun Kluwih (*Artocarpus camansi*)

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ABSTRAK

Tujuan dari penelitian ini untuk mengetahui pengaruh konsentrasi maltodekstrin terhadap karakteristik minuman serbuk instan fungsional ekstrak daun kluwih dan untuk mengetahui formulasi terbaik minuman serbuk instan fungsional ekstrak daun kluwih. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan (perbedaan konsentrasi maltodekstrin 10%, 15%, 20%, 25%, dan 30%) dan 3 ulangan. Hasil penelitian menunjukkan konsentrasi maltodekstrin berpengaruh berbeda nyata terhadap waktu larut, bagian tidak larut, kadar air, kadar abu, aktivitas antioksidan, total polifenol, dan organoleptik warna. Namun, tidak berbeda nyata terhadap organoleptik aroma dan tekstur. Berdasarkan uji fisika, kimia, mikrobiologi, dan organoleptik didapatkan produk terbaik adalah perlakuan A (konsentrasi maltodekstrin 10%) dengan karakteristik perlakuan A: waktu larut (54,67 detik), bagian tidak larut (5,20%), kadar air (5,13%), kadar abu (4,41%), aktivitas antioksidan IC_{50} (583,93 ppm), total polifenol (4104,25 mgGAE/g), angka lempeng total ($2,1 \times 10^3$ cfu/g), warna (4,04), aroma (3,24), dan rasa (3,44).

Kata kunci: daun kluwih, minuman serbuk instan, maltodekstrin.



Effect of Maltodextrin Concentration on Characteristics of Functional Instant Powder Beverage from Kluwih Leaf Extract (*Artocarpus camansi*)

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ABSTRACT

This research aimed to determine the effect of maltodextrin concentration on characteristics of functional instant powder beverage from kluwih leaf extract and to determine the best formulation of functional instant powder beverage from kluwih leaf extract. This study using Completely Randomized Designed (CRD) with 5 treatments (different concentration of maltodextrin that were 10%, 15%, 20%, 25%, and 30%) and 3 replications. The result showed that maltodextrin concentration has influence to soluble time, insoluble part, moisture content, ash content, total polyphenols, antioxidant activity IC_{50} , and colour of organoleptic. In contrast, it does not influence aroma and taste of organoleptic. Based on physical, chemical, microbiology, and sensory characteristic the best product is chosen by treatment A (10% maltodextrin concentration) with characteristic of treatments A 54.67 second values soluble time, 5,20% insoluble part, 5.13% moisture content, 4.41% ash content, 583.93 ppm antioxidant activity IC_{50} , 4104.25 mgGAE/g total polyphenols, 2.1×10^5 cfu/g total plate count, 4.04 colour, 3.24 aroma, and 3.44 taste.

Keyword: kluwih leaf, instant powder beverage, maltodextrin



