

**PENGARUH PERBEDAAN KONSENTRASI SARI DAUN
MURBEI (*Morus alba* L) TERHADAP KARAKTERISTIK
PERMEN KERAS (*Hard Candy*)**

ASRIA YOLANDARI

1711121004



**PROGRAM STUDI TEKNOLOGI HASIL PERTANIAN
FAKULTAS TEKNOLOGI PERTANIAN
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Sebagai Salah Satu Syarat Memperoleh

Gelar Sarjana Teknologi Pertanian

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Pengaruh Perbedaan Konsentrasi Sari Daun Murbei (*Morus alba* L) terhadap Karakteristik Permen Keras (*Hard Candy*)

Asria Yolandari¹, Rina Yenrina², Tuty Anggraini³

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan konsentrasi sari daun murbei terhadap karakteristik permen keras dan untuk menghasilkan permen keras dengan karakteristik yang terbaik berdasarkan analisis fisik, analisis kimia dan analisis sensori. Rancangan penelitian yang digunakan adalah Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 3 kali ulangan. Hasil pengamatan dari masing-masing parameter dianalisa statistik dengan uji F dan dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DNMRT) pada taraf nyata $\alpha=5\%$. Perlakuan pada penelitian ini adalah penambahan sari daun murbei 0%, 4%, 8%, 12%, dan 16%. Tiga perlakuan terbaik ditentukan berdasarkan uji organoleptik dan kemudian dilakukan analisis sakarosa, kadar gula reduksi, aktivitas antioksidan, nilai energi, dan kekerasan. Hasil penelitian menunjukkan bahwa penambahan sari daun murbei berpengaruh nyata terhadap kadar air, kadar abu, nilai pH, kadar sakarosa, kadar gula reduksi, aktivitas antioksidan, uji kekerasan, dan analisis sensori (warna, aroma, rasa, tekstur), dan tidak berpengaruh pada nilai energi. Berdasarkan karakteristik kimia, fisik dan sensori pada penerimaan produk permen keras, yang terbaik adalah permen keras dengan penambahan 12% sari daun murbei dengan nilai analisis kimia meliputi analisis kadar air 3,94%, kadar abu 1,09%, pH 5,77, kadar sakarosa 42,82%, kadar gula reduksi 21,21%, aktivitas antioksidan 42,65%, nilai energi 350,04 kkal/100g dan tingkat kekerasan 462,67 kg, analisis sensori adalah warna 3,6 (suka), aroma 3,9 (suka), rasa 3,7 (suka), dan tekstur 3,9 (suka).

Kata kunci – permen keras, sari daun murbei, karakteristik permen keras

The Effect of Different Concentrations of Mulberry Leaf Juice on Hard Candy Characteristics

Asria Yolandari¹, Rina Yenrina², Tuty Anggraini³

ABSTRACT

This research aimed to determine the effect of different concentrations of mulberry leaf juice on hard candy characteristics and to produce hard candy with the best characteristics based on physical analysis, chemical analysis and sensory analysis. The research design used is a Complete Randomized Design (RAL) with 5 treatments and 3 repeats. The observations of each parameter are analyzed statistically with the F test and continued with Duncan's New Multiple Range Test (DNMRT) at a real level $\alpha=5\%$. The treatment in this research was addition of 0%, 4%, 8%, 12%, and 16% mulberry leaf juice. The three best treatments were determined based on organoleptic tests and then performed an analysis of saccharose, reduced sugar levels, antioxidant activity, energy value, and hardness. The results showed that the addition of mulberry leaf juice had a significant effect on moisture content, ash content, pH level, saccharose, sugar content reduction, antioxidant activity, hardness rate, and sensory analysis (color, scents, taste, texture), and had no effect on energy value. Based on chemical, physical and sensory characteristics on the reception of hard candy products, the best is hard candy with addition of 12% mulberry leaf juice with chemical analysis value include moisture content of 3,94%, ash content of 1,09%, pH of 5,77, saccharose of 42,82%, sugar content reduction of 21,21%, antioxidant activity of 42,65%, energy value of 350,04 kkal/100g, and hardness rate of 462,67 kg, sensory analysis are color 3,6 (likes), scents 3,9 (likes), taste 3,7 (likes), and texture 3,9 (likes).

Keywords—hard candy, mulberry leaf juice, characteristics hard candy