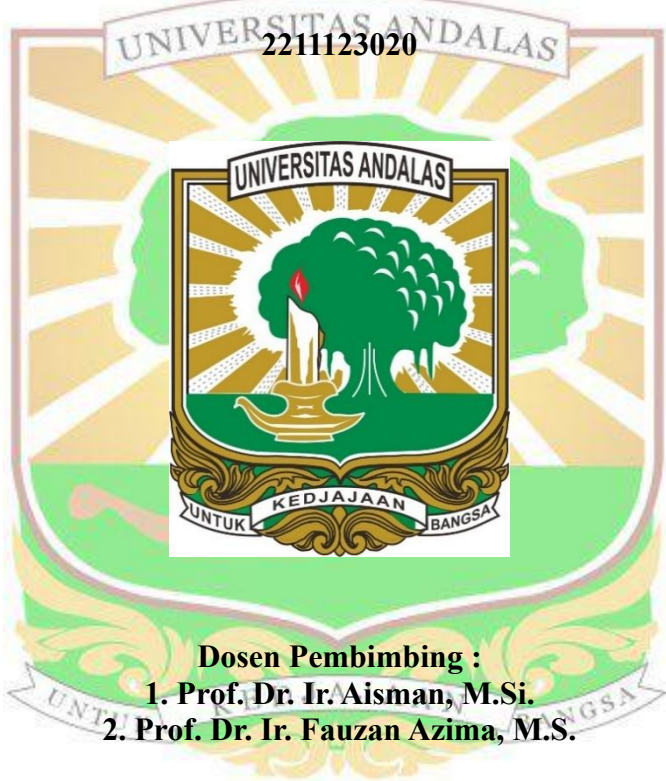


**PENGARUH PENAMBAHAN KULIT JERUK
LEMON (*Citrus limon L.*) TERHADAP
KARAKTERISTIK TEH HERBAL
TEMULAWAK (*Curcuma xanthorriza*)**

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PENGARUH PENAMBAHAN KULIT JERUK LEMON (*Citrus limon L.*) TERHADAP KARAKTERISTIK TEH HERBAL TEMULAWAK (*Curcuma xanthorrhiza*)

Mega Delvana Manik, Aisman, Fauzan Azima

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan bubuk kulit jeruk lemon (*Citrus limon L.*) terhadap karakteristik fisik, kimia, dan organoleptik teh herbal temulawak (*Curcuma xanthorrhiza* Roxb.). Penelitian menggunakan Rancangan Acak Lengkap (RAL) dengan lima perlakuan dan tiga ulangan, dengan perlakuan perbandingan konsentrasi serbuk kulit jeruk terhadap teh herbal temulawak yang dihasilkan, yaitu A (0%), B (10%), C (20%), D (30%), dan E (40%). Data penelitian dianalisis secara statistik menggunakan Analisis of Varian (ANOVA) dan dilanjutkan dengan analisis Duncan's New Multiple Range Test (DNMRT) pada taraf 5% Parameter yang diamati meliputi kadar air, kadar abu, pH, total polifenol, vitamin C, aktivitas antioksidan, serta organoleptic terhadap warna, aroma, dan rasa. Hasil penelitian menunjukkan bahwa peningkatan penambahan bubuk kulit jeruk lemon berpengaruh nyata terhadap kadar abu, dan aktivitas antioksidan, total polifenol, vitamin C, warna, aroma, dan rasa, namun tidak berpengaruh nyata terhadap kadar air dan pH. Perlakuan E merupakan perlakuan terbaik dengan kadar air 6,742%, kadar abu 5,571%, aktivitas antioksidan 24,472%, pH 5,960, total polifenol 11,619 mg GAE/g, dan vitamin C 0,889%. Nilai kesukaan warna, aroma, dan rasa perlakuan E berturut-turut sebesar 3,56 (suka), 3,60 (suka), dan 3,72 (suka).

Kata kunci: antioksidan, lemon, teh herbal, temulawak, vitamin C

THE EFFECT OF ADDING LEMON PEEL (*Citrus limon* L.) ON THE CHARACTERISTICS OF TEMULAWAK HERBAL TEA (*Curcuma xanthorrhiza*)

Mega Delvana Manik, Aisman, Fauzan Azima

ABSTRACT

*This study aimed to determine the effect of adding lemon peel powder (*Citrus limon* L.) on the physical, chemical, and organoleptic characteristics of temulawak herbal tea (*Curcuma xanthorrhiza* Roxb.). The study employed a completely randomized design (CRD) with five treatments and three replicates, based on the concentration ratio of lemon peel powder to the temulawak herbal tea, A (0%), B (10%), C (20%), D (30%), and E (40%). The data were statistically analyzed using Analysis of Variance (ANOVA), followed by Duncan's New Multiple Range Test (DNMRT) at a 5% significance level. The parameters observed included moisture content, ash content, pH, total phenolic content, vitamin C content, antioxidant activity, and organoleptic characteristics (color, aroma, and taste). The results showed that increasing the addition of lemon peel powder had a significant effect on ash content, antioxidant activity, total phenolic content, vitamin C content, and the organoleptic characteristics of color, aroma, and taste, but had no significant effect on moisture content and pH. Treatment E was identified as the best treatment, with a moisture content of 6.742%, ash content of 5.0691%, antioxidant activity of 24.472%, pH of 5.960, total phenolic content of 11.619 mg GAE/g, and vitamin C content of 0.889%. The hedonic scores for color, aroma, and taste of Treatment E were 3.56 (liked), 3.60 (liked), and 3.72 (liked), respectively.*

Keywords: antioxidant, lemon, herbal tea, temulawak, vitamin C