

**PENGARUH PENAMBAHAN DAUN PANDAN
WANGI (*Pandanus Amaryllifolius*) TERHADAP
KARAKTERISTIK TEH HERBAL DAUN
BALAKACIDA (*Chromolaena odorata*)**

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PENGARUH PENAMBAHAN DAUN PANDAN WANGI (*Pandanus Amaryllifolius*) TERHADAP KARAKTERISTIK TEH HERBAL DAUN BALAKACIDA (*Chromolaena odorata*)

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan daun pandan wangi terhadap karakteristik fisikokimia, aktivitas antioksidan, dan sifat organoleptik teh herbal daun balakacida (*Chromolaena odorata*). Penelitian menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 3 kali ulangan. Perlakuan yang digunakan adalah A (tanpa penambahan daun pandan wangi), B (penambahan 10% daun pandan wangi), C (penambahan 20% daun pandan wangi), D (penambahan 30% daun pandan wangi), dan E (penambahan 40% daun pandan wangi). Data hasil penelitian dianalisis secara statistik menggunakan ANOVA dan dilanjutkan dengan *Duncan's New Multiple Range Test* (DNMRT) pada taraf nyata 5%. Hasil penelitian menunjukkan bahwa penambahan daun pandan wangi memberikan pengaruh nyata terhadap skor organoleptik aroma dan rasa, serta sedikit menurunkan aktivitas antioksidan dan kandungan polifenol. Analisis terbaek berdasarkan kimia dan uji organoleptik diperoleh pada perlakuan E (penambahan 40% pandan wangi) dengan nilai kadar air 4,80%, kadar abu 7,16%, aktivitas antioksidan 65,90%, total polifenol 117,37 mg GAE/gram, serta skor organoleptik warna 3,70 (agak suka), aroma 4,10 (suka), dan rasa 4,00 (suka).

Kata kunci: antioksidan, balakacida, pandan wangi, teh herbal

EFFECT OF FRAGRANT PANDAN LEAF (*Pandanus amaryllifolius*) ADDITION ON THE CHARACTERISTICS OF BALAKACIDA LEAF (*Chromolaena odorata*) HERBAL TEA

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ABSTRAK

This study aimed to determine the effect of fragrant pandan leaf addition on the physicochemical characteristics, antioxidant activity, and organoleptic properties of balakacida leaf (*Chromolaena odorata*) herbal tea. The research employed a Completely Randomized Design (CRD) with 5 treatments and 3 replications. The treatments were A (no fragrant pandan leaf addition), B (10% fragrant pandan leaf addition), C (20% fragrant pandan leaf addition), D (30% fragrant pandan leaf addition), and E (40% fragrant pandan leaf addition). The research data were statistically analyzed using ANOVA followed by Duncan's New Multiple Range Test (DNMRT) at a 5% significance level. The results showed that the addition of fragrant pandan leaf significantly affected the organoleptic scores for aroma and taste, while slightly reducing antioxidant activity and polyphenol content. The best treatment based on chemical and organoleptic analysis was treatment E (40% pandan leaf addition), with moisture content of 4.80%, ash content of 7.16%, antioxidant activity of 65.90%, total polyphenols of 117.37 mg GAE/gram, and organoleptic scores for color 3.70 (slightly liked), aroma 4.10 (liked), and taste 4.00 (liked).

Keywords: antioxidant, balakacida, fragrant pandan, herbal tea