

**PENGARUH PENAMBAHAN BUBUK *CASSIA VERA*
TERHADAP SIFAT KIMIA DAN SENSORIS TEH HERBAL
DAUN BINAHONG (*Anredera cordifolia* (Ten.) Steenis)**

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Pengaruh Penambahan Bubuk *Cassiavera* terhadap Sifat Kimia dan Sensoris Teh Herbal Daun Binahong (*Anredera cordifolia*, (Ten.) Steenis)

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan bubuk *cassiavera* pada teh herbal daun binahong terhadap sifat kimia dan sensoris teh. Penelitian menggunakan Rancangan Acak Lengkap (RAL) yang terdiri dari 5 perlakuan dan 3 kali ulangan. Data dianalisis secara statistik dengan menggunakan *Analysis of Variance* (ANOVA) dan jika berbeda nyata, dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DNMRT) pada taraf nyata 5%. Perlakuan pada penelitian ini yaitu teh herbal daun binahong dengan penambahan *cassiavera*; A (penambahan bubuk *cassiavera* 8%), B (penambahan bubuk *cassiavera* 9%), C (penambahan bubuk *cassiavera* 10%), D (penambahan bubuk *cassiavera* 11%), E (penambahan bubuk *cassiavera* 12%). Pengamatan pada teh herbal meliputi uji kadar air, uji kadar abu, nilai IC_{50} , uji total polifenol, uji kadar alkaloid, uji kadar tanin, uji kualitatif senyawa saponin, dan uji organoleptik (rasa, aroma, warna). Hasil penelitian menunjukkan bahwa penambahan bubuk *cassiavera* pada teh herbal daun binahong berpengaruh nyata terhadap nilai IC_{50} , total polifenol, kadar alkaloid, namun berpengaruh tidak nyata terhadap kadar air, kadar abu, dan uji organoleptik (rasa, aroma, warna). Hasil uji organoleptik menunjukkan penambahan bubuk *cassiavera* 12% sebagai produk terbaik dengan nilai rata-rata kadar air (5,9%), kadar abu (7,31%), IC_{50} (70,15 ppm), total polifenol (1521,33 mg GAE/g), kadar alkaloid (2,89%), kadar tanin (2,76%), dan mengandung senyawa saponin. Hasil analisis kimia pada seduhan teh herbal perlakuan E dengan nilai rata-rata IC_{50} (131,05 ppm), dan total polifenol (813,67 mg GAE/g). Tingkat penerimaan panelis terhadap warna (4,00), rasa (3,12), aroma (3,36).

Kata kunci: bubuk *cassiavera*, daun binahong, sifat kimia, sifat sensoris, teh herbal

The Effect of Addition of *Cassia* Powder to the Chemical and Sensory Properties of Herbal Tea of Binahong Leaves (*Anredera cordifolia*, (Ten.) Steenis)

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ABSTRACT

The aim of this research was to determine the effect of addition of cassiavera powder on herbal tea of binahong leaves to chemical and sensory properties of tea. The research using a Completely Randomized Design (CDR) consisted 5 treatments and 3 replications. Data was analyzed statistically using Analysis of Variance (ANOVA) that followed by a test of Duncan's New Multiple Range Test (DNMRT) at the 5% significant level. Treatment in this research were herbal tea of binahong leaves with addition cassiavera powder; A (addition cassiavera powder 8%), B (addition cassiavera powder 9%), C (addition cassiavera powder 10%), D (addition cassiavera powder 11%), E (addition cassiavera powder 12%). Observation of the herbal tea consisted of moisture content, ash content, IC₅₀ value, total polyphenol, alkaloid content, tannin content, qualitative test of saponin compounds, and sensory evaluation (flavor, aroma, colour). The results showed that the addition of cassiavera powder on herbal tea of binahong leaves significantly affected on IC₅₀ value, total polyphenol, and alkaloid content, and also no significantly affected on moisture content, ash content, and sensory evaluation (colour, flavor, aroma). The results of sensory evaluation showed that the addition of 12% cassiavera powder was the best treatment with average value of moisture content (5.9%), ash content (7.31%), IC₅₀ (70.15 ppm), total polyphenol (1521.33 mg GAE/g), alkaloid content (2.89%), tanin content (2.76%), and containing saponin compounds. The results of the chemical analysis on herbal tea steeping of treatment E with average value of IC₅₀ (131.05 ppm), dan total polyphenol (813.67 mg GAE/g). The level of panelist acceptance based on sensory analysis toward colour (4.00), flavor (3.12), aroma (3.36).

Keywords: binahong leaves, cassiavera powder, chemical properties, herbal tea, sensory properties