

**KARAKTERISTIK KIMIAWI TEH KOMBUCHA YANG
DIHASILKAN DARI DAUN KAKAO MUDA DAN DAUN
KAKAO TUA (*Theobroma cacao L.*)**

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“Karakteristik Kimiawi Teh Kombucha yang Dihasilkan dari Daun Kakao Muda dan Daun Kakao Tua (*Theobroma cacao L.*)”.

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ABSTRAK

Salah satu inovasi bahan baku teh kombucha yaitu menggunakan daun kakao. Penelitian ini bertujuan untuk mengetahui sifat kimia terbaik teh kombucha daun kakao berdasarkan umur daun dan varietas tumbuhan kakao (*Theobroma cacao L.*). Penelitian ini menggunakan metode deskriptif dengan 4 perlakuan dan 3 ulangan. Perlakuan pada penelitian ini adalah A (daun muda varietas TSH), B (daun tua varietas TSH), C (daun muda varietas Sulawesi), D (daun tua varietas Sulawesi). Pengamatan yang dilakukan meliputi analisis kimia yaitu kadar total polifenol, kadar total flavonoid, aktivitas antioksidan, kadar total asam tertitrasi, nilai pH, kadar gula, dan kadar alkohol. Hasil penelitian menunjukkan bahwa perlakuan terbaik terdapat pada teh kombucha dengan bahan baku daun muda varietas TSH dengan % inhibisi sebesar 46,61 sebanding dengan 130,98 ppm asam askorbat, total polifenol sebesar 20,6 mg GAE/g, total flavonoid 2,42 mg EQ/g, total asam tertitrasi sebesar 1,11%, memiliki nilai pH 2,75, kadar gula 5,71%, dan alkohol 1,41%.

Kata kunci – Aktivitas antioksidan, daun kakao, teh kombucha



“Chemical Characteristics of Kombucha Tea Produced from Young Cocoa Leaves and Old Cocoa Leaves (*Theobroma cacao L.*)”

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ABSTRACT

One of the innovations of raw material for kombucha tea is using cocoa leaves. This study's to determine the best chemical properties of cocoa leaf kombucha tea based on leaf age and cocoa plant variety (*Theobroma cacao L.*). This research used a descriptive method with 4 treatments and 3 replications. The treatments in this study were A (young leaves of the TSH variety), B (old leaves of the TSH variety), C (young leaves of the Sulawesi variety), D (old leaves of the Sulawesi variety). Observations were made including chemical analysis, namely total polyphenol content, total flavonoid content, antioxidant activity, total titrated acid content, pH value, sugar content, and alcohol content. The results showed that the best treatment was found in kombucha tea with young leaves of the TSH variety with % inhibition of 46.61 comparable to 130.98 ppm ascorbic acid, total polyphenols of 20.6 mg GAE/g, total flavonoids 2.42 mg EQ/g, total acid titrated is 1.11%, has a pH value of 2.75, sugar content of 5, 71%, and alcohol 1.41%.

Keywords – Antioxidant activity, cocoa leaf, kombucha tea