

Analisis Kadar Asam Asetat Hasil Fermentasi Buah Kedondong (*Spondias dulcis* Parkinson) dengan Metode Titrasi Alkalimetri

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ABSTRAK

Asam asetat didapatkan dari proses fermentasi bahan pangan seperti buah dan sayuran yang mengandung karbohidrat dalam jumlah besar. Buah kedondong (*Spondias dulcis* Parkinson) merupakan salah satu buah yang dapat difermentasi menghasilkan asam asetat. Penelitian ini bertujuan mengetahui kadar asam asetat dari hasil fermentasi buah kedondong. Fermentasi dilakukan secara anaerob pada pH 3-4,5, kemudian difermentasi kembali secara aerob menggunakan inokulum isolat BEN-4 untuk menguubah alkohol menjadi asam asetat, yang ditandai dengan perubahan warna menjadi lebih pucat dan terbentuknya aroma asam yang menyengat. Analisis kadar asam asetat menggunakan metode titrasi alkalimetri menggunakan NaOH 0,1 N dan indikator fenolftalein yang dilakukan setiap empat hari sekali hingga asam asetat mencapai kondisi jenuh. Hasil pengukuran kadar asam asetat fermentasi buah kedondong yaitu sebesar 28,82-29,69%. Hasil ini menunjukkan bahwa asam asetat yang dihasilkan dari fermentasi buah kedondong dapat dimanfaatkan sebagai produk cuka secara alami sesuai standar kadar asam asetat untuk cuka dapur yang ditetapkan oleh SNI 01-3711-1995.

Kata Kunci: Asam Asetat, Fermentasi, Kedondong (*Spondias dulcis* Parkinson)

*Analysis of Acetic Acid Levels Fermented Kedondong Fruit (*Spondias Dulcis* Parkinson) with Alkalimetry Titration Method*

ABSTRACT

Acetic acid can be obtained from the fermentation of plant like fruits and vegetables which contain large amount of carbohydrates. Kedondong fruit (*Spondias Dulcis* Parkinson) is one of substance that can be fermented to produce acetic acid. The aims of this study is to determine the level of acetic acid from fermented kedondong. Fermentation was carried out anaerobically at the pH 3-4.5, then it was fermented again using BEN-4 isolate to convert alcohol into acetic acid, which can be identified by a pale colour change and a strong smell. Quantitative analysis of acetic acid using alkalimetric titration method with 0.1 N NaOH with phenolphthalein indicator was conducted every four days until acetic acid reached the saturated condition. The result was obtained 28.82-29.69% concentration of acetic acid. It is indicated that the acetic acid from fermented kedondong can be used as a natural vinegar product based on standard level of acetic acid for cuka dapur by SNI 01-3711-1995.

Keywords: Acetic acid, Fermentation, Kedondong (*Spondias dulcis* Parkinson)

PENDAHULUAN

Asam asetat atau asam cuka merupakan senyawa organik yang mengandung gugus asam karboksilat yang dikenal sebagai pemberi rasa asam dan aroma pada makanan (Wassah dkk., 2018). Asam asetat hasil fermentasi alami memiliki rasa lebih baik dibandingkan asam asetat produksi industri kimia, sehingga bisa digunakan sebagai bahan penyedap (memperbaiki rasa), dan pengawet alami (Juniarwati, 2013). Hasil penelitian fermentasi cuka menggunakan substrat tanaman telah banyak dilakukan antara lain

fermentasi dari buah mambuam yang mampu menghasilkan asam asetat hingga kadar 29,28% (Pratiwi, 2015), fermentasi buah salak dengan kadar asam asetat 3,83% (Rahayu & Suparti, 2015), dan kulit singkong menggunakan bakteri *Acetobacter* aceti 10% dengan kadar asam asetat 2,58% (Rahmawati, 2015).

Buah kedondong diduga mampu menghasilkan asam asetat karena dalam 100 g daging buah kedondong memiliki kadar air sebesar 60-85 g dan gula sebanyak 8-10,5 g (Muntari, 2012). Buah kedondong memiliki bentuk yang bervariasi antara bulat, bulat telur, sampai bulat memanjang dengan ukuran kecil sampai besar

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