

**ISOLASI ASAM SINAMAT DARI BERBAGAI KUALITAS KEMENYAN
ASAL SUMATERA UTARA**

(Isolation of Cinnamic Acid from the Qualities of North Sumateran Benzoin)

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ABSTRAK

Tujuan penelitian ini adalah untuk mengetahui kadar dan kemurnian asam sinamat hasil isolasi berbagai kualitas kemenyan. Kemenyan di pasaran ada 6 kualitas yaitu kualitas I s/d kualitas VI, pembagian ini hanya berdasarkan besar kecilnya lempengan/bongkahan kemenyan. Untuk itu dicoba dilakukan isolasi asam sinamat dari berbagai kualitas kemenyan. Metode yang digunakan untuk isolasi asam sinamat dari kemenyan berdasarkan SII 2044-1987. Hasil penelitian menunjukkan bahwa kualitas kemenyan mempengaruhi kadar asam sinamat hasil isolasi. Kemenyan kualitas I s/d IV mengandung kadar asam sinamat yang relatif tinggi yaitu berkisar 30,1% - 32,8%, sedangkan kemenyan kualitas V dan kualitas VI lebih rendah yaitu 28,4% dan 25,5%. Kemurnian asam sinamat hasil isolasi tidak dipengaruhi oleh kualitas kemenyan yaitu berkisar antara 92,8% s/d 95,7%.

Kata kunci : Kemenyan, isolasi, asam sinamat, kadar, kemurnian

ABSTRACT

The purpose of this experiment was to look into the content and the purity of cinnamic acid isolated from the qualities of benzoin. In the marketing, benzoin is divided into 6 class qualities (i.e. 1st, 2d, 3rd, 4th, 5th and 6th quality), based on the sizes/shapes. As the relevance, the experiment was conducted to isolate cinnamic acid from benzoin of any quality. The method to isolate cinnamic acid based on SII 2044-1987. The results revealed that the qualities of benzoin significantly was affected the cinnamic acid content. The benzoin quality of 1st to 4th brought out higher quantity of cinnamic acid, i.e. 30.1 – 32.8%, while the quantity of the resin quality of 5th and 6th were lower, i.e. 28.4% and 25.5%, respectively. On the other hand, the purity of isolated cinnamic acid was not affected by benzoin qualities which ranged from 92.8 to 95.7%.

Keywords : Benzoin, isolation, cinnamic acid, content, purity