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The Raw Material Size Effects on Oleoresin Content and Quality of Unripe Fruits Nutmeg Fuli

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Abstract: Research entitled effect of the size of raw material on oleoresin content and quality of unripe fruits nutmeg fuli (*Myristica fragrans* HOUTT) has been conducted in laboratory of station for testing certification of product quality (BPSPB), trade department in air tawar padang, west sumatera since February until May 2005. The objective of this research was to study the effect of the size of raw material on oleoresin content and quality of unripe fruits nutmeg fuli.

Completely randomized design (CRD) with 6 treatment and 3 replicates was employed in this research. Data collection was analyzed statistically using F-test and then continued using Duncan's New Multiple Range Test (DNMRT) at significant level 5%. The treatment were original material (A), 10-mesh sizing; material (B), 20-mesh sizing; material (C), 30-mesh sizing; material (D), 40-mesh sizing; material (E) and 50-mesh sizing; material (F), respectively. Parameter measurement was oleoresin content, volatile oil content, specific weight, bias index, and solvent residue.

The result showed the size of raw material in influence to oleoresin content, volatile oil content, specific weight, bias index, and solvent residue. The best result was found from E treatment (40-mesh sizing material) with 39.88% oleoresin content, 35.24% volatile oil content, 1.004 specific weights, 1.49 bias indexes, and 3.56% solvent residue.

Keywords: Unripe fruit nutmeg, Oleoresin, Volatile Oil, and solvent residue

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