

Penggunaan Buah Mutbei (*Morus rubra*) Sebagai Katalis Asam pada Proses Pembuatan Bioetanol Berbahan Baku Onggok Singkong (The use of mulberry (*Morus rubra*) as an acid catalyst in the product Bioetanol from Onggok Cassava).

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ABSTRACT

Bioethanol can be made from raw materials onggok cassava through hydrolysis. On hydrolysis needed a catalyst acid to break up starch to sugar simple. The hydrolysis of by acid chemical can cause corrosion and the environmental pollution , hence necessary natural acid. Natural acid having an excess on their use as well as environmentally friendly one of them is an acid derived from mulberry (morus rubra). Those who used in this research is on variations in concentration acid fruit mulberry of 50 %, 33,33 % and 25 % and variation time hydrolysis namely 45 minutes and 60 minutes with the temperature 1210c. The result of analysis stastistika use anova obtained treatment best in the 45 minutes and concentration 50 % with value de (dextrose equivalent) 1,5678 %. From the distillation use raw materials onggok cassava and catalyst fruit mulberry produce levels of 4,53 % ethanol with maximum yield 14,44%.

Keywords : *Bioethanol, Dextrose Equivalent, Hydrolysis, Mulberry.*