(!) SCIENCE ALERT

	Search
Home	
Journals -	Journals > American Journal of Food Technology > Abstract
▶ Browse by subject	American Journal of Food Technology Year: 2010 Volume: 5 Issue: 2 Page No.: 100-110 DOI: 10.3923/ajft.2010.100.110
▶ A to Z Journals	
Aims & Scope 🚽	Microwave Assisted Synthesis and Characterization of Acetate Derivative Cassar A.C. Kumoro, D.S. Retnowati and C.S. Budiyati Abstract: The aim of this study were to observe the possibility of application of heating in the acetylation of cassava starch and to study the physicochemical p the starch acetate obtained. The acetylation was carried out by mixing native c starch with chloroacetic acid and sodium hydroxide of a certain weight ratio in a container. The mixture was then sprayed with ethanol and heated using microwa The Degree of Substitution (DS), Reaction Efficiency (RE) and some physical pro acetylated starches were then analyzed. It was found that microwave assisted of cassava starch using chloroacetic acid can be done in a very short reaction ti highest DS and RE obtained were 0.045 and 0.051%, respectively. Acetylation o starch reduced gel hardness during storage. Acetylation also inhibits the retrogra starch gel. Cassava starch acetylation changed starch molecular motion, resultir
Online First 🐳	
Current Issue ,	
Previous Issues	
Editorial Board 🚽	
Guide to Authors 👒	
	decrease in the glass transition temperature. Amylopectin retrogradation was no reduced, indicating that the degrees of modification of the starches in this study low to cause enough steric hindrance to prevent retrogradation. The modification on native starch granules; they took place preferentially on the amylose fraction amylopectin fraction, thus leaving amylopectin retrogradation was mostly unaffe be concluded that microwave heating can be applied in the acetylation of cassa obtain significant changes of the properties of starch.
	[Abstract] [Fulltext PDF] [Fulltext HTML] [References] [View Citation] [Report
	How to cite this article:
	Kumoro A.C. D.S. Retnowati and C.S. Rudivati. 2010. Microwaya assisted syn

Kumoro, A.C., D.S. Retnowati and C.S. Budiyati, 2010. Microwave assisted syn characterization of acetate derivative cassava starch. Am. J. Food Technol., 5

DOI: <u>10.3923/ajft.2010.100.110</u>

URL: <u>http://scialert.net/abstract/?doi=ajft.2010.100.110</u>

COMMENT ON THIS PAPER

Full Name:	
E-mail:	
Comments:	
Socurity	
Question:	/+Z=?
	jn 8
	jn 3