

Influence of different extraction methods on physic-chemical characteristics and chemical composition of coconut oil (*Cocos nucifera* L)

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First Author	Ibrahim, A. I.; Nurjanah, S.; Kramadibrata, A. M.;
Last Author	Dwiyanti, H.
Authors	Ibrahim, AI; Nurjanah, S; Kramadibrata, AM; Naufalin, R; Erminawati; Dwiyanti, H;
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Abstract	<p>Extraction method which used to obtain natural compounds from grade materials is a critical process to obtain quality product, especially to protect its nutritional value. Physical chemical characteristics and chemical composition of oils extracted from coconut (<i>Cocos nucifera</i>) by different techniques needs to be identified to assess the effect of extraction methods, by solvent and hydraulic, on their physical and chemical properties. Mandal and Lee method was employed to extract the raw materials, whilst Association of Official Analytical Chemistry International (AOAC) and American Oil Chemists Society (AOCS) methods were used to analyze the physical-chemical of their extracted oils. T-test was performed to assess the different between data. Result showed that significant differences ($P < 0.05$) in parameters of physical chemical properties of the coconut extracted at saponification, peroxide, iodine, flash point and viscosity, while there was no significant difference in density, FFA and ash content Significant difference was also found in saponification, iodine, peroxide and density of coconut oils by both method extraction with FAO and WHO standard. It is concluded that the different in extraction techniques affect to the oil productivity, physical and chemical properties, and fatty composition of coconut oils.</p>
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Author	Dr RIFDA NAUFALIN, S.P