

Antioxidant Activity and Physicochemical Properties of *Nicolaia speciosa* Flower Extract

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Abstract	<p>Flower of <i>Nicolaia speciosa</i> contain some bioactive compounds which are potential as natural antioxidant agent. <i>N. speciosa</i> flowers contains bioactive compounds such as polyphenols, alkaloids, flavonoids, steroids, saponins and essential oils. Unfortunately, extract of <i>N. speciosa</i> flower is very volatile and not stable upon exposures to light and oxygen. Therefore the extract should be modified into nanoencapsulan powder. This research aimed 1) to study the best encapsulant proportion of gelatin-cyclodextrin (w/w) and <i>N. speciosa</i> flower extract proportion that affected into antioxidant activity. The results showed that the proportion of encapsulan gelatin-cyclodextrin (w/w) 1: 1 (w/w), the proportion of extract: encapsulan 1: 1 (w/w), with nanoencapsulating method resulted the highest a total phenolic 635.8 mg/100g and the highest antioxidant activity that is 59.34%. (C) 2016 Published by Elsevier B.V.</p>
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