ABSTRACT

PHOSPHOLIPID AS A CARRIER OF KAEMPFERIA GALANGA RHIZOME EXTRACT TO IMPROVE ITS ANTITUSSIVE ACTIVITY

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Kaempferia galanga L. (kencur) have been used as an antitussive traditionally. This study compared between phytosome and conventional extract. conducted to evaluate anti-tussive activity in sulphur dioxide (SO2)-induced cough model in mice. Both samples showed significant antitussive activity in sulphur dioxide induced cough model. Thus, these formulations can prove to be useful for alleviating cough. Characteristics of the free form and their complexes were analysed by DSC.

The results are analyzed by Duncan and showed a significant difference with $p < 0.05$, fitosom provides higher damping cough while conventional extract lower when compared with phytosome. The samples applied on mice, after 30 minutes the mice so2-inducted as cough model.

Keywords: kencur rhizomes, Kaempferia galanga L, phytosome, Phospholipid complex antitussives and cough medicine.