

Gallic Acid Content of Kecombrang Rhizomes Extract (Etingera Elatior (Jack) RMSm)

Harti Widiastuti^{1,a,*}, Sri Yatmi Yahya^{2,a}, Aktsar Roskiana Ahmad^{3,b}

^aFaculty of Pharmacy Undergraduate Program, Universitas Muslim Indonesia.

^bMaster of Pharmacy, Postgraduate Program, Universitas Muslim Indonesia

*harti.widiastuti@umi.ac.id

Abstract. Background Rhizome kecombrang (*Etingera elatior* (Jack) R.M.Sm), is one of many plants that are in use in Indonesia. Kecombrang rhizomes (*Etingera elatior* (Jack) RMSm) rich in gallic acid which is traditionally used as an antiseptic. This study aims to determine the content of gallic acid in rhizome extract kecombrang (*Etingera elatior* (Jack) RMSm). Methodology Kecombrang rhizome extract (*Etingera elatior* (Jack) R.M.Sm), obtained by maceration method. Analysis of the chemical components using Thin Layer Chromatography (TLC) is characterized by the appearance of stains. Assay of gallic acid kecombrang rhizome extract (*Etingera elatior* (Jack) R.M.Sm), using the TLC-densitometry. Results The results showed that phytochemicals in the extract testing kecombrang (*Etingera elatior* (Jack) R.M.Sm), positive for gallic acid compounds containing gallic acid is 2,00012003 mgRE/g. Discussion This research used kecombrang rhizome as a sample and extract was obtained by using maceration. Qualitative and quantitative analysis by using TLC densitometry and acid gallic p.a was used as a standard. The qualitative assay according to the R_f value that compared with standard. Quantitative measurements analyzed the data by using the calibration curve. Conclusion Rhizome kecombrang (*Etingera elatior* (Jack) R.M.Sm) contains gallic acid about 2,00012003 mgRE/g.

Keyword: kecombrang, *etlingera elatior* (jack) RMSm, gallic acid, TLC-densitometry.