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**UJI SINERGISITAS ANTIOKSI DAN EKSTRAK KLOOROFORM DAUN
TEH (*Camellia Sinensis*) DENGAN α -TOKOFEROL
MENGUNAKAN PENDEKATAN KEMOMETRI**

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ABSTRACT

Aim of this research is to know factor influenced to antioxidative activity of chloroform extract of tea leaf (*Camellia sinensis*) with α -tocopherol in peanut oil system. Research was done by take data of peroxide value, tiocyanic acid value dan barbituric acid value of the system added antioxidant at various concentration. Variance analysis was investigated to the data by interpreting factors consist of time, extract concentration and α -tocopherol concentration followed by determination of regression model. Result showed that time, extract concentration and α -tocopherol concentration influence to the antioxidative activity and there was interaction effect of the factors. Optimum condition gained at time of 60 minutes, α -tocopherol concentration of 110 ppm and extract concentration of 100 ppm. The model resulted from this analysis can be used to predict synergistic effect between chloroform extract of tea leaf with α -tocopherol.

Key word: antioxidant, synergistic effect, extraction