ABSTRACT

Comparison of Continuous Percolation and Accelerated Extraction Methods of Curcuminoid Content and Yield of *Curcuma heyneana*’s Extract

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The aim of this study was to get the appropriate extraction method to be applied on a laboratory scale that obtained the same results on industrial scale. Continuous percolation, Microwave Assisted Extraction, and Ultrasound Assisted Extraction methods were used in this study. The result of extraction were analyzed by ANOVA one-way test continued by Post Hoc LSD test. The curcuminoid content extracts were 1.37%, 1.21%, and 1.27% and yield of extracts were 7.90%, 12.12%, and 10.34% for continuous percolation, Microwave Assisted Extraction, and Ultrasound Assisted Extraction, respectively. The Analytical statistics showed that there were significantly different between each extraction methods.

Keywords: Lab scale, Industry Scale, Continuous Percolation, Microwave Assisted Extraction, Ultrasound Assisted Extraction.