ABSTRACT

Quality Control of Pegagan *Centella asiatica* (L.) Urban Using Chromatogram Profile

This study aimed to explain the similarity between sample profile and standard. The chromatogram profile will be used as database to develop quality control method of the plants. The difference of origin area, height area, geographical and climatic conditions can affect to the compound in a plant. All of herba *Centella asiatica* (L.) Urban extracted with water, 96%, 70%, 50% ethanol extract. Extraction method is maceration. Data normalization will be processed by multivariate analysis PCA (*Principle Component Analysis*) and the samples are identified by SIMCA (*Soft Independent Modeling of Class Analogy*). PCA showed the formation of sample groups which means that different origin area and carrier solvents affecting the compounds of *Centella Asiatica* (L.) Urban. The result of SIMCA showed the identity of artificial sample and test samples, it can be seen from coomans and Si Vs Hi plot.

Keyword: *Centella asiatica*(L.) Urban, Chromatogram profile, PCA, SIMCA