

ABSTRACT**STANDARD PARAMETER DETERMINATION of SIMPLICIA
BARK of *Artocarpus champeden* Spreng.****Krisna Ika Puryanti**

Cempedak (*Artocarpus champeden* Spreng) is one of food plant that can be used as traditional medicinal plant such as fever, dysentery, malaria, and skin disease. Based on the experimental previously has been report that the bark of cempedak contain flavonoid *heteroflavan C* that have activity as antimalaria with IC_{50} $1,37.10^{-9}$ M. Along with the development of technology, cempedak potentially to developing into standarized herbal drug and phytopharmaca product. So that, as beginning step needful the standardization process of *Artocarpus champeden* bark to assure pharmaceutic quality that the raw material is qualify in order to process in next step become standarized herbal drug and phytopharmaca product. The aim of study is to determine the specific parameters and nonspecific parameters and nonspecific parameters of raw material of *Artocarpus champeden* bark as a part of standardization.

Artocarpus champeden bark which had been harvested from Bogor, and then washed, cut, dried in room temperature and grinded into powders. The result of the non specific parameters raw material of *Artocarpus champeden* bark showed that total ash content was $(3,2 \pm 0,17)$ %, acid insoluble ash content was $(1,26 \pm 0,05)$ %, water soluble ash content was $(0,56 \pm 0,021)$ %, water content was $(4,78 \pm 0,39)$ %, loss on drying $(9,07 \pm 0,19)$ %, Cu content was 0,432 ppm, timbale content was (Pb) 0,210 ppm, Cadmium(Cd) content was 0,412 ppm, Zink (Zn) content was 0,175 ppm and negative value for mercury (Hg) and Arsenic (As) content . For the pestizides residue shows result negative for DDT, diazinon, and propoxur.

The result of specific parameters of raw material showed that water soluble extractive substances content was $(20,103 \pm 0,30)$ %, alcohol soluble extractive substances content was $(13,59 \pm 0,50)$ %. The specific parameters of raw material also examined the macroscopic and microscopic of the raw material.

Keyword : *standard parameter determination, simplicia, bark, Artocarpus champeden* Spreng.