

## ABSTRACT

### Standardization of *Simplicia* Sunflower Leaves (*Helianthus annuus* L.) From Three Native Area (Area Bandung, Kebumen dan Surabaya)

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*Helianthus annuus* is one of medical plants which grows in Indonesia that has health benefits and potential to be used as a traditional medicine. There have been many studies on sunflower leaves (*Helianthus annuus* L.) which show the potential for pharmacological activity as a medical plant. The specific parameter values of simplicial are: water soluble extractive content from Bandung ( $19,81 \pm 0,76\%$ , Kebumen ( $25,39 \pm 0,88$ ) % and Surabaya ( $23,97 \pm 0,74$ ) %; ethanol soluble extractive content from Bandung ( $15,27 \pm 1,70\%$ , Kebumen ( $16,71 \pm 0,37$ )% and Surabaya ( $15,81 \pm 0,27$ ) %.  $\beta$ -sitosterol content from Bandung ( $0,22 \pm 0,01$ ), Kebumen ( $0,16 \pm 0,01$ ) and Surabaya ( $0,17 \pm 0,01$ ). While non specific parameter of simplicial sunflower leaves are: loose on drying content from Bandung ( $9,42 \% \pm 0,05$ )%, Kebumen ( $8,68 \% \pm 0,17$ ) % and Surabaya ( $9,73 \pm 0,38$ )%, total ash content from Bandung ( $8,42 \pm 1,67$ )%, Kebumen ( $7,58 \pm 0,37$ ) % and Surabaya ( $9,73 \pm 0,22$ ) %; insoluble acid ash content from Bandung ( $6,85 \pm 0,13$ )%, Kebumen ( $0,35 \pm 0,08$ )% and Surabaya ( $6,59 \pm 0,12$ )%.

**Keywords** : Standardization, Standard Parameters, *Helianthus annuus* L., Sunflower Leaves,