

**ABSTRACT****STANDARDIZATION OF 70% ETHANOL EXTRACT OF  
SUNFLOWER LEAVES (*Helianthus annuus* L.)**

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The purpose of this study is to determine the spesific and non spesific standard parameters of 70% ethanol extract of sunflower leaves (*Helianthus annuus* L.) from Surabaya, Kebumen, and Bandung. The result of the non spesific parameters of 70% ethanol extract of sunflower leaves showed that, the yield of extract from Surabaya was 13,8 %, from Kebumen was 12,2 % and from Bandung was 11,2 % . Determination of water content from Surabaya was 10,33%  $\pm$ 0,58, from Kebumen was 11,33%  $\pm$ 0,58 and from Bandung was 12,66 % $\pm$ 1,15. Determination of total ash content from Surabaya was 7,57% $\pm$ 0,10, from Kebumen was 5,70% $\pm$ 0,04 and from Bandung was 8,83%  $\pm$ 0,14. Determination of acid insoluble ash content from Surabaya was 0,65% $\pm$ 0,14, from Kebumen was 0,75% $\pm$ 0,11 and from Bandung was 5,17% $\pm$ 0,11. The spesific parameter of 70% ethanol extract of sunflower leaves showed, the  $\beta$ -Sitosterol content from Surabaya was 0,98% $\pm$ 0,18 , from Kebumen was 0,97% $\pm$ 0,02, and from Bandung was 1,02% $\pm$ 0,12.

Keywords: *Helianthus annuus* L., sunflower leaves, standardization, standard parameters