

ABSTRACT**GENERAL STANDARD PARAMETER DETERMINATION 70% AND 96% ETHANOL EXTRACT OF *Justicia gendarussa* Burm. f.**

Base on ethnomedicine study that *Justicia gendarussa* Burm. f. leaf is being used as a male contraceptive in central part of Irian Jaya Province. Gendarusin A is a major component of *Justicia gendarussa* Burm. f. that was reported to have antifertility effect by preventing spermatozoa penetration by degrading activity of hyaluronidase enzyme. The research of this standarization extract consist the determination general standard parameter proses of etanol 70% and 96% *Justicia gendarussa* Burm. f leaves extract. General standard parameter of this extract were determined by specific standard and non specific parameters.

The result showed non-spesific parameters of 70% ethanol extract were total ash was $4,30 \pm 0,04\%$, acid insoluble ash was $1,27 \pm 0,05\%$, water content was $5,98 \pm 0,01\%$, volatile oil content was $2,60 \pm 0,01\%$, loss on drying was $18,26 \pm 0,72\%$, Pb content was 0,149 ppm, Hg content was 0,134 ppm, As content was 0,224 ppm, and Cd content was 0,218 ppm. The spesific parameters of 70% ethanol extract showed that water soluble extractive substance was $1,76 \pm 5,77 \times 10^{-3}\%$, alcohol soluble extractive substance was $5,37 \pm 0,20\%$, and gendarusin A content was $0,35 \pm 0,01\%$.

The result showed non-spesific parameters of 96% ethanol extract were total ash was $2,92 \pm 0,03\%$, acid insoluble ash was $0,76 \pm 0,03\%$, water content was $3,98 \pm 0,01\%$, volatile oil content was $2,11 \pm 0,11\%$, loss on drying was $12,95 \pm 0,09\%$, Pb content was 0,013 ppm, Hg content was 0,017 ppm, As content was 0,024 ppm, and Cd content was 0,032 ppm. The spesific parameters of 96% ethanol extract showed that water soluble extractive substance was $0,67 \pm 5,77 \times 10^{-3}\%$, ethanol soluble extractive substance was $6,72 \pm 0,50\%$, and gendarusin A content was $0,15 \pm 8,03 \times 10^{-3}\%$. The determination result of microbial impurity was acceptable and meet the requirement.

Keyword : Standard parameters, 70% and 96% ethanol extract, *Justicia gendarussa* Burm. f.